KENWOOD

COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

XD-951
XD-A900
XD-A700

INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above.
Model availability and features (functions) may differ depending on the country and sales area.
→ 68

COMPACT disc DIGITAL AUDIO

B60-3907-00 01 (MA) [MC] (E2,Q,M,X,Y,K,P)
99/12 11 10 9 8 7 6 5 4 3 2 1 98/12 11 10 9 8 7 6 5 4

⚠ *Caution : Read this page carefully to ensure safe operation.*

Units are designed for operation as follows.

U.S.A. and Canada	***AC 120 V only***
Australia	***AC 240 V only***
Europe and U.K.	***AC 230 V only***
China and Russia	***AC 220 V only***
****Other countries***	***AC 110-120 / 220-240 V switchable***

Safety precautions

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The marking of products using lasers (Except for some areas)

The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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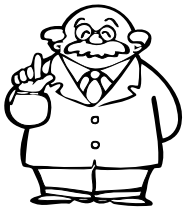
Special features



DOLBY Pro Logic Surround

→ 51

The Dolby Pro Logic and Dolby 3 Stereo are top-level surround modes that can reproduce the world of 3-dimensional audio.

Built in sub woofer (XD-951/XD-A900 only)

→ 19

Each 3-way speaker incorporates an additional sub woofer to reproduce heavy bass more powerfully than conventional system speakers.

3D Wide FL display

→ 14

The easy to see graphical display features a large spectrum analyzer. A running indicator shows the operations such as CD playback and skipping at a glance.

Easy to operate, new multi control jog dial

→ 17

The jog dial makes possible easy setup of CD playback, timer recording/playback and other operations while monitoring the displayed information. The same operation is also available on the remote control unit.

3-Disc carousel CD player

→ 20

Three discs can be set. There are various ways for enjoyment at the time of program playback, repeat playback, random playback, etc.

Demonstration

When the power supply is restored after a power failure or the power cord is unplugged and plugged in again during use, this unit automatically starts the demonstration function (display only). During the demonstration, the display changes in sequence but the audio does not change. The demonstration can be canceled with the following procedure.

- Press the key during demonstration to stop it.
- Even when DEMO is ON, stations with weak radio waves are muted and their sound cannot be heard.

To switch over the demonstration:

Turn the unit OFF (STANDBY mode) and press the key.
Each press of the key switches the demonstration as shown below.

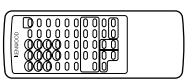
① DEMO (Demonstration executed)
② OFF (Demonstration canceled)

Unpacking

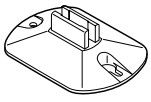
Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Accessories

Remote control unit (1)



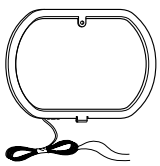
Loop antenna stand (1)



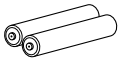
Speaker cords (4)
XD-951/XD-A900
Speaker cords (2)
XD-A700

(Provided in the speaker package)

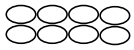
AM loop antenna (1)



Batteries (R6/AA) (2)



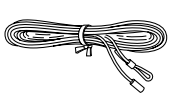
Speaker cushions (8)



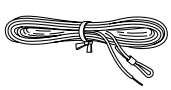
Surround speaker system
Surround speaker (2)
Speaker cord (2)
Speaker stabilizer (8)
Wall mount hardware (2)
Screw (4)
Center speaker (1)
Speaker cord (1)
Speaker stabilizer (4)
Except for CRS-N551

FM indoor antenna (1)

Europe and U.K.

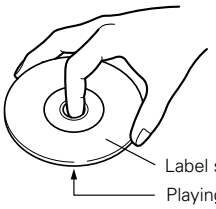


Other countries

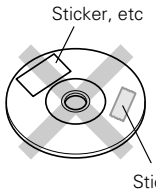


Handling of discs and tapes

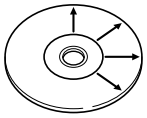
Disc handling precautions



Handling
Hold compact discs so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of compact discs.



Cleaning
If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.

Storage
When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

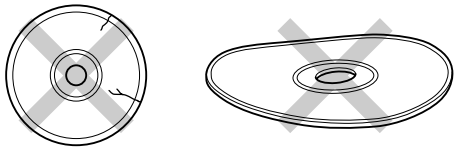
CD accessories

The CD accessories (stabilizer, protection sheet, protection ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system because they may cause malfunction.

Discs which can be played with this unit

CD (12 cm, 8 cm), CDV (only the audio part)
- With CD-G (CD Graphics) discs, this unit can play only the audio.
- Please do not use discs which are not round because they may cause a malfunction.

Caution on disc used

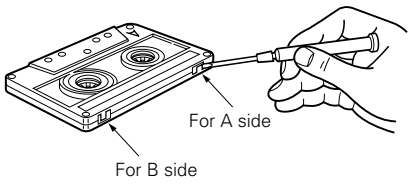


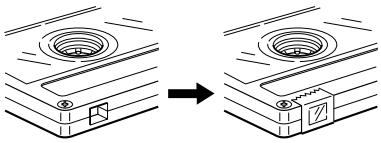
Never play cracked or warped disc.
During playback, the disc rotates at high speed in the player. Therefore, to avoid malfunction, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

Do not use cleaning discs.
Please do not use commercially available cleaning discs, they may damage the internal mechanism.

Notes on cassette tape

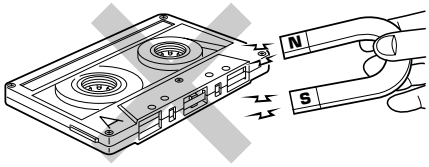
Safety tab (accidental erasure prevention tab)
After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.



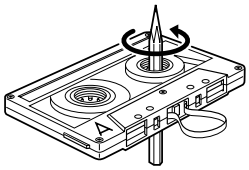


To re-record Apply tape only to the position where the tab has been removed.

To store cassette tapes
Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



When there is slack in the tape
In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



Notes

1. Longer tape than 110 minutes cassette tape
Since longer tape than 110 minutes cassette tape is very thin, the tape could adhere to the pinch roller or be easily cut. It is recommended that these tapes not be used with this unit to prevent possible damage.

2. Endless tapes
Do not use an endless tape, as this could damage the mechanism of the unit.

Connection of the System Accessories

This is the connection method for system and accessories. Please look carefully at the illustration and connect correctly in the order of the numbers.

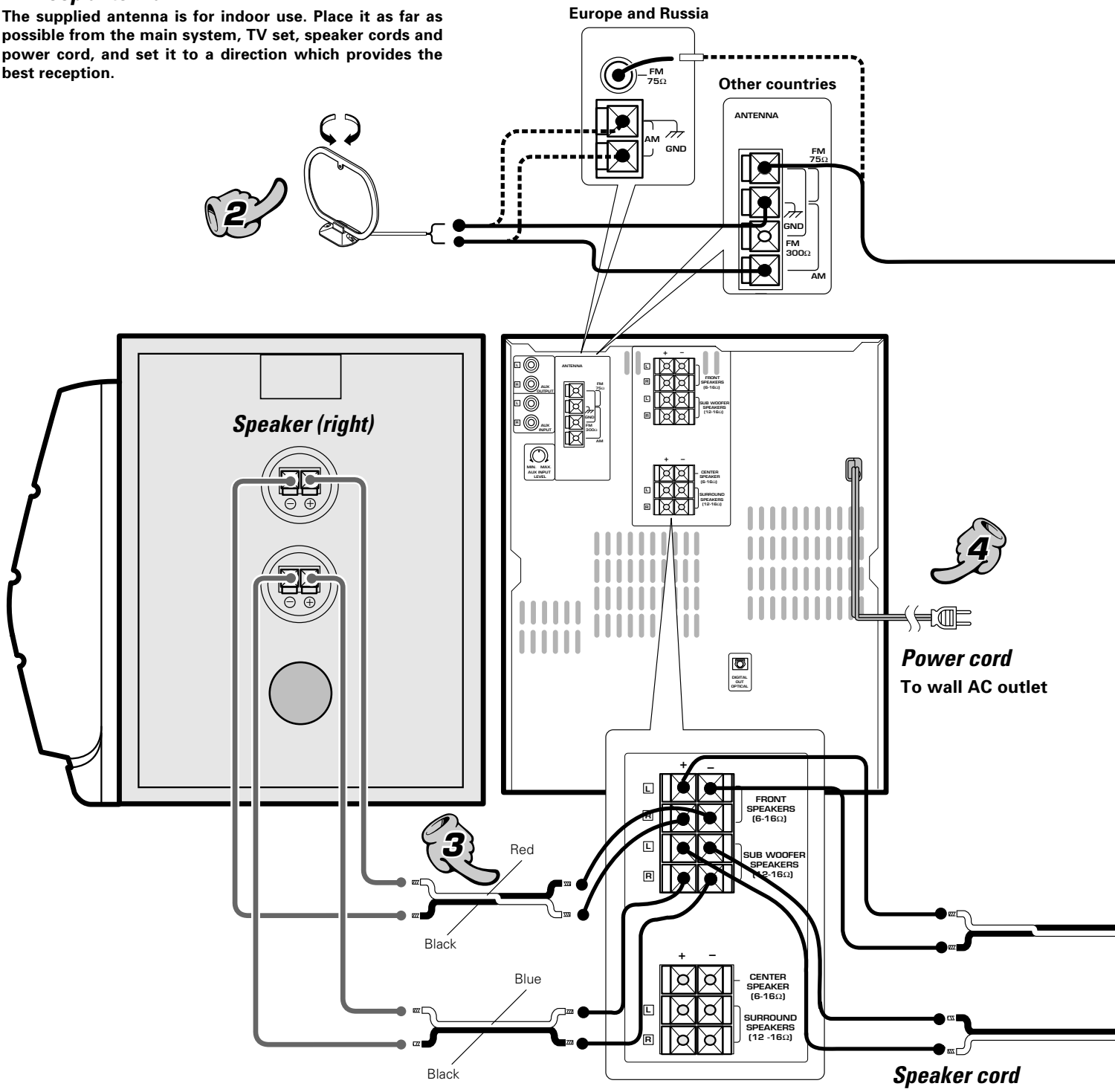
Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".

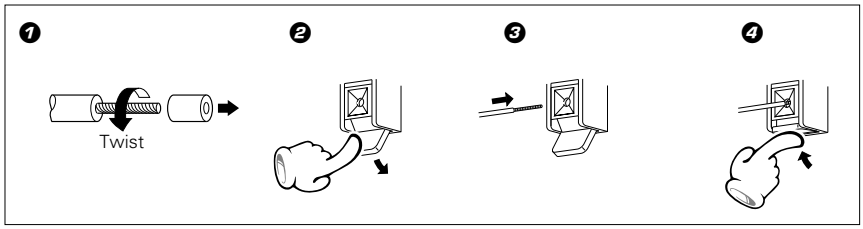
→ 62

AM loop antenna

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.



Main Unit



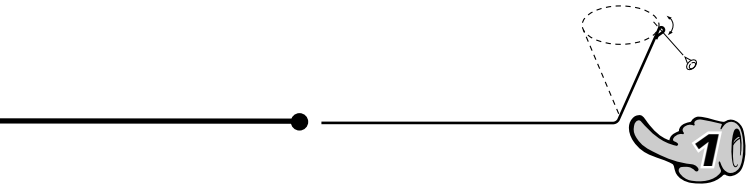
Caution regarding placement (Except for U.S.A. and Canada)

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

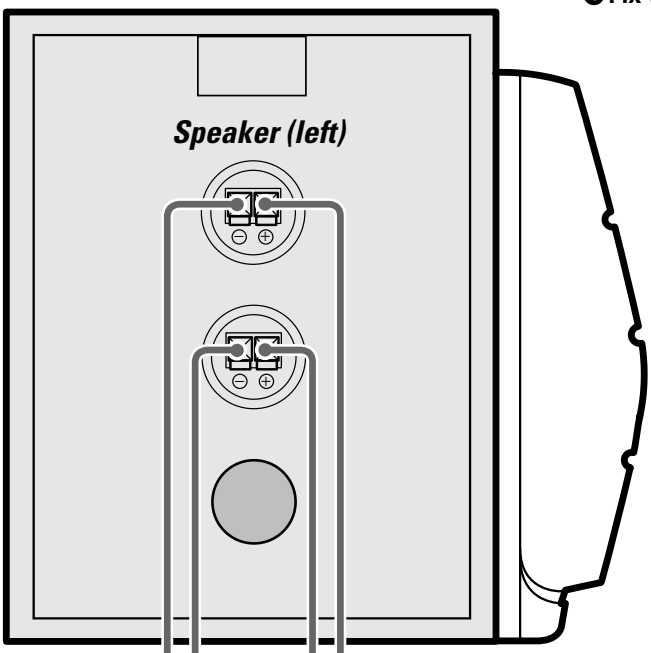
rear panel: 10 cm

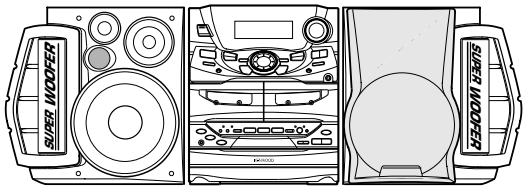
FM indoor antenna

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.



❶ Strip the coating from the tip of cord and twist the conductor.
❷ Connect to the antenna terminal.
❸ Locate the position providing good reception condition.
❹ Fix the antenna.

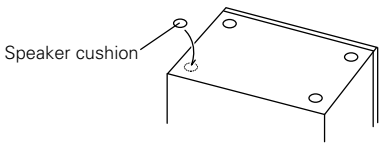




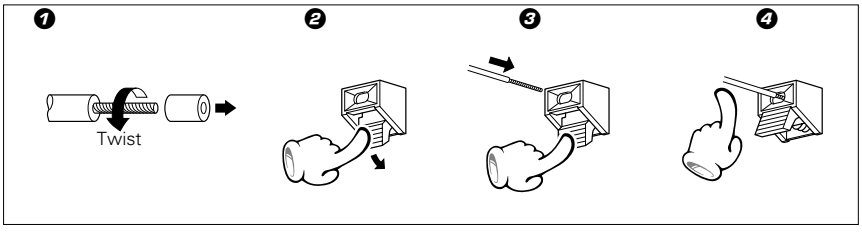
The external view is variable depending on the model and marketing destination area.

Before connecting the Front Speakers

Stick the supplied front speaker cushions to the bottom of the front speakers to stabilize the speakers and prevent them from slipping.



Speaker Unit



Notes

1. In case an associated system component is connected, also read the instruction manual of the component.
2. Never short-circuit the + and – speaker cords.
3. If the left and right speaker connections or the + and – polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mistake.
4. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
5. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

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This is the connection method for system and accessories. Please look carefully at the illustration and connect correctly in the order of the numbers.

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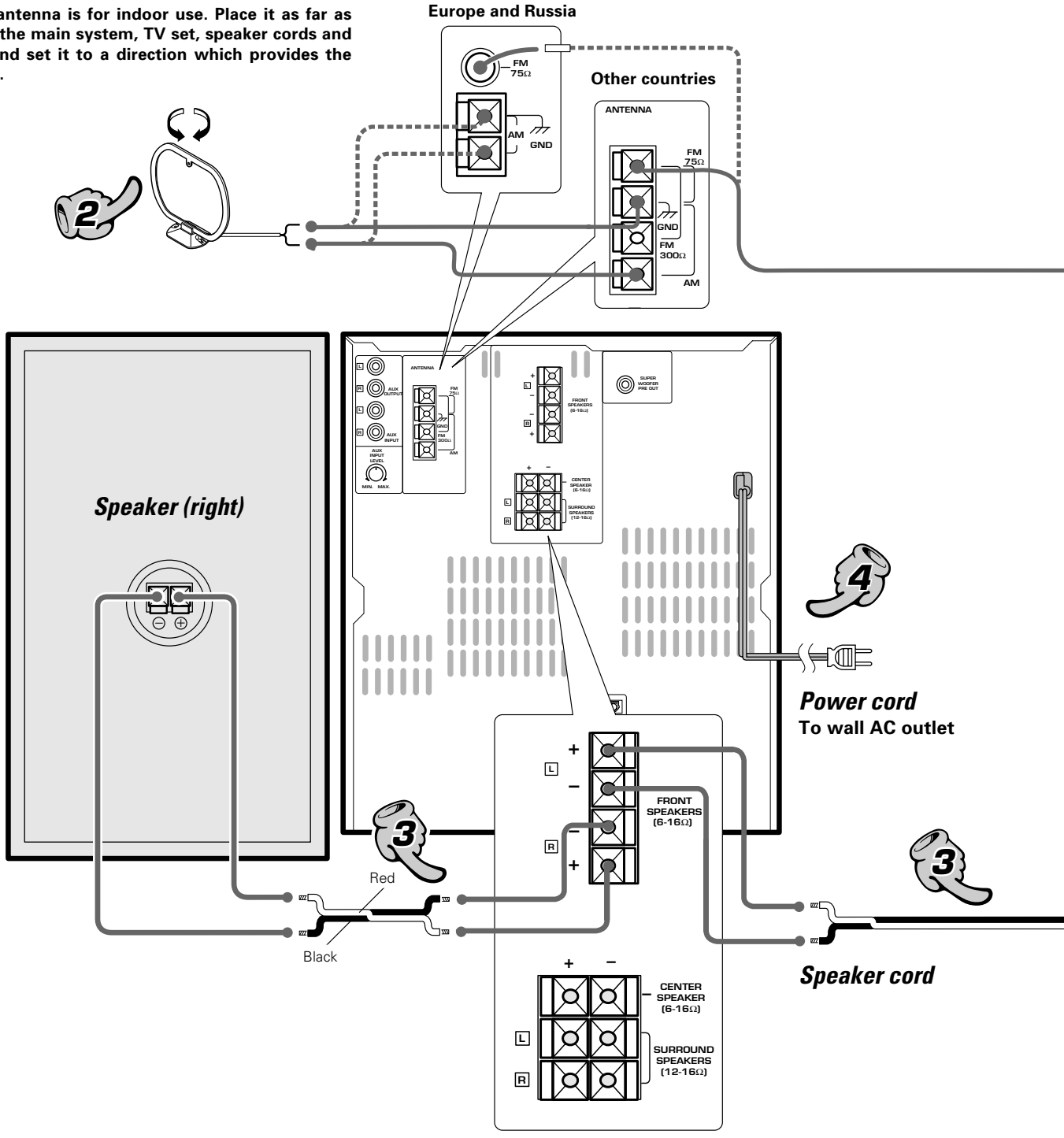
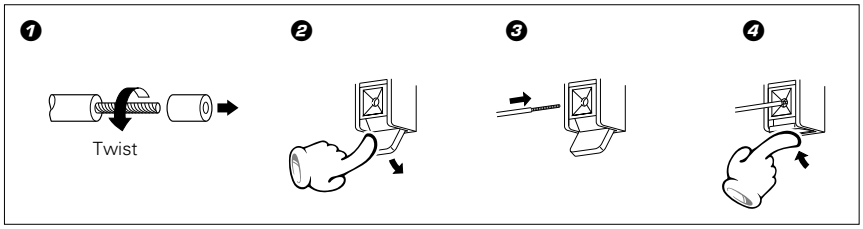


Main Unit



XD-951/A900/A700 (En)

Caution regarding placement

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rear panel: 10 cm

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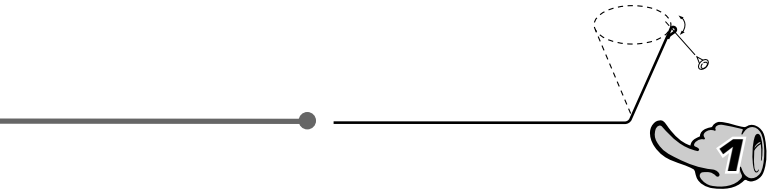

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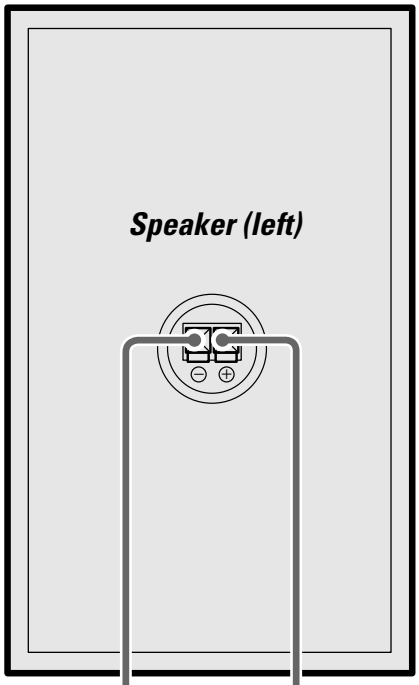

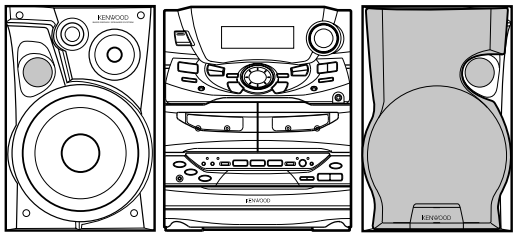

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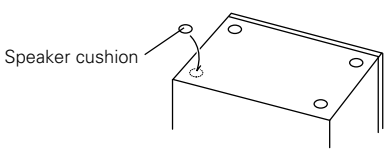
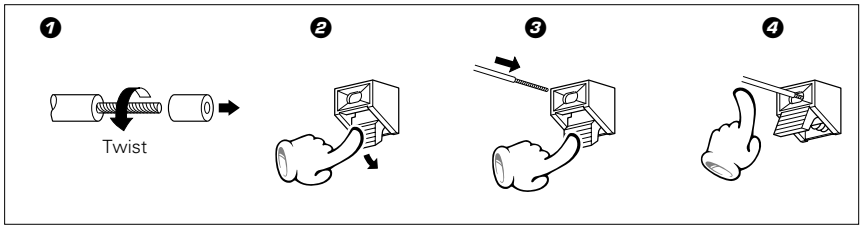


Speaker Unit



Notes

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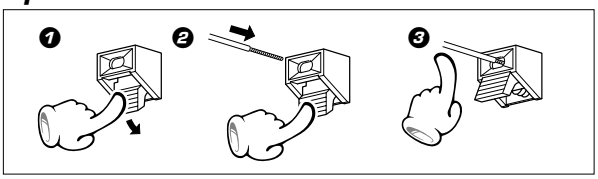
2. Never short-circuit the + and – speaker cords.
3. If the left and right speaker connections or the + and – polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mistake.
4. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
5. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

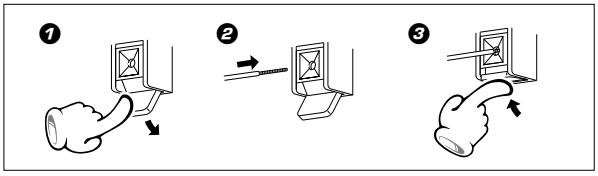
Connection of the surround speakers

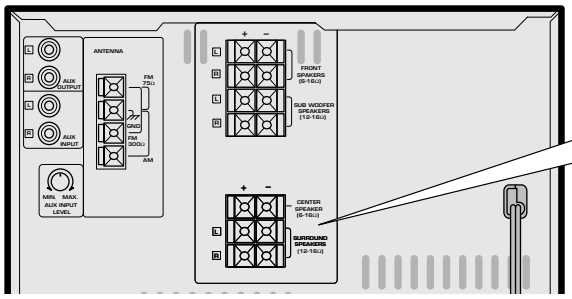
Do not plug the power cord into the power outlet until all of the required connections have been made.

Speaker Unit

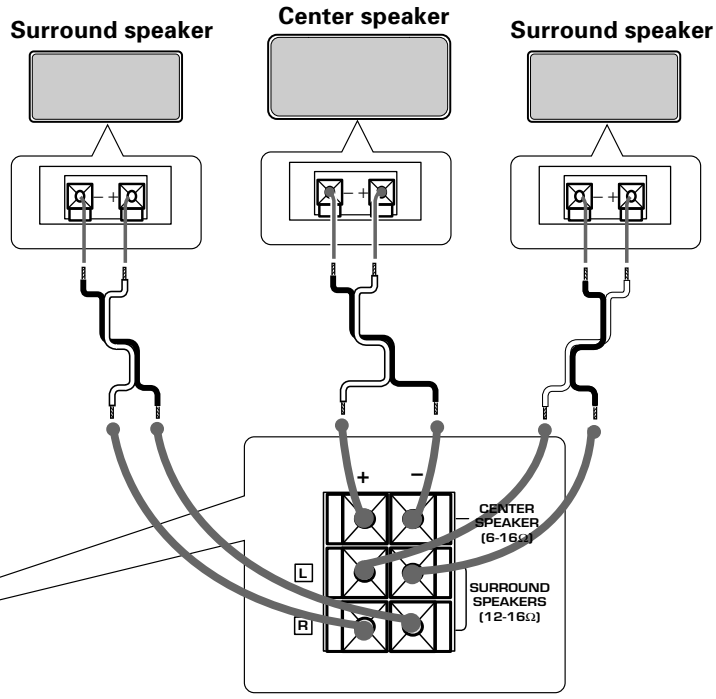


Main Unit



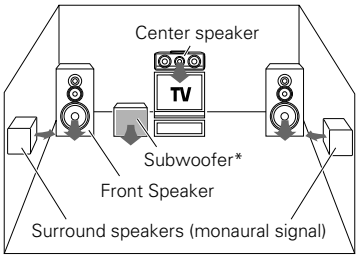


Surround speaker system (supplied)



Dolby Pro Logic

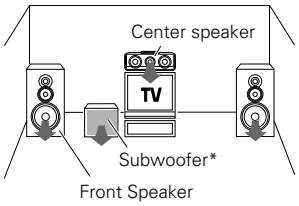
Dolby Pro Logic is a specially encoded 2 channel surround format designed to provide theater-like surround sound from Dolby Surround encoded sources (such as video and Laserdisc software marked DOLBY SURROUND). This unit is equipped with a Dolby Surround decoder to let you enjoy the wide variety of currently available Dolby Surround home video software.



* Optional in this mode.

Dolby 3 Stereo

Dolby 3 Stereo is available for systems that do not set surround speakers. When in the Dolby 3 Stereo mode the surround information is redirected to the front left and right speakers. This mode is designed for use with Dolby Surround program sources, but can also improve sound field unity for programs that are not Dolby Surround edcoded. Dialog positioning and sound image definition, however, may not be as accurate when used with programs that are not Dolby Surround edcoded.



* Optional in this mode.

Recommended speaker installation

It is recommended that the surround speakers are installed straight to the left and right of the listening position or slightly behind, at a height of about 1 meter higher than the listener's ears. Each surround speaker should be installed so that the longer sides are horizontal.

How to use the speaker stabilizer (cushions)

When the surround speaker system installation is unstable due to the floor condition, apply the provided stabilizer (cushions) on four positions on the bottom of each speaker. (Except for CRS-N551)

Hanging on a wall

The surround speakers can be hung on a wall.
When hanging the surround speakers, select a rigid and hard place on the wall which can withstand the weight of the speakers.

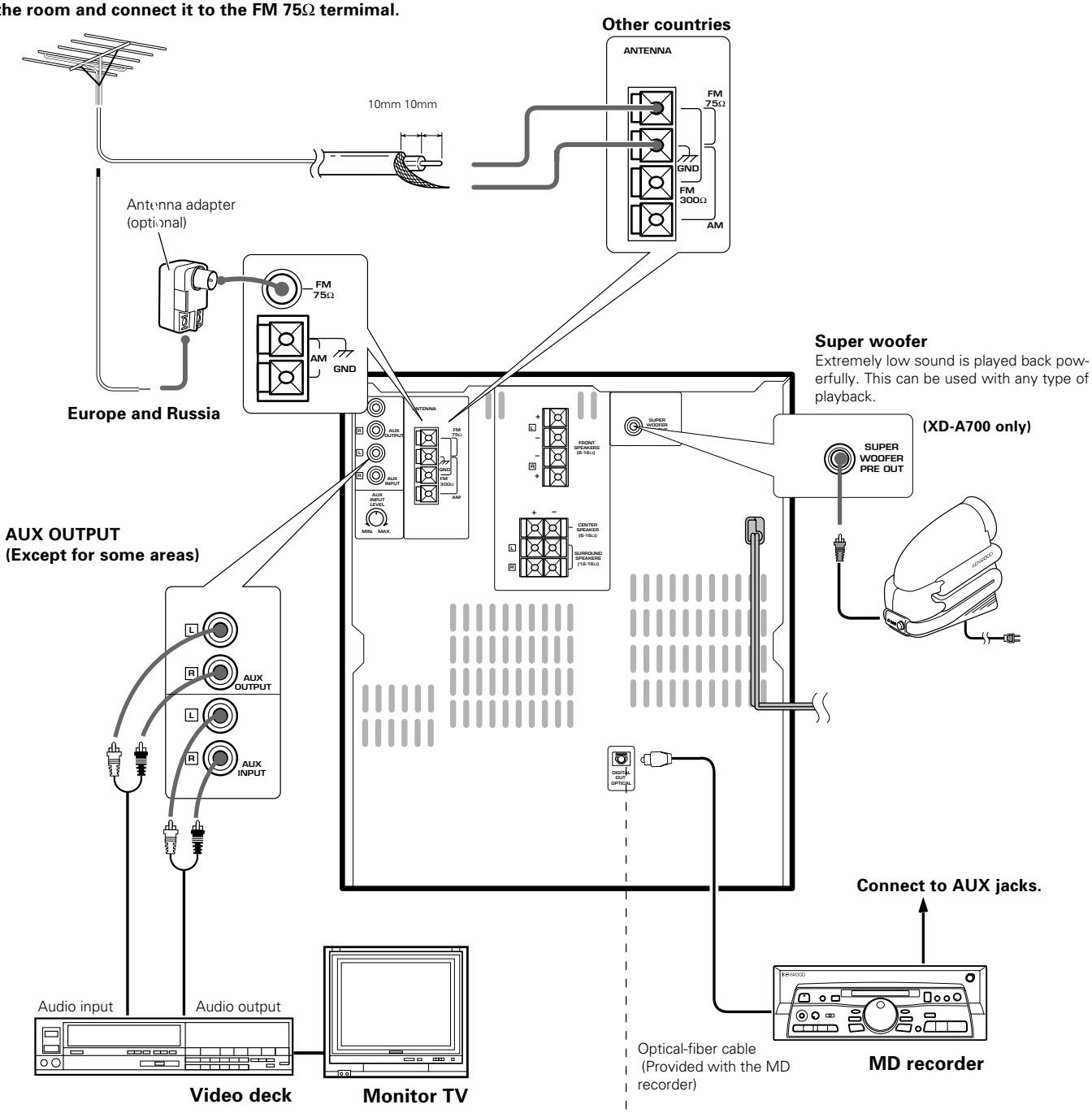
1. Attach the provided mounting hardware onto the rear panel of each speaker using the provided screw. (Except for CRS-N551)
2. Install a screw, which is commercially available, with sufficient strength on the wall. When screwing in, leave the head and upper stem of the screw projected by 7 to 9 mm from the wall surface.
3. Mount each speaker by hooking up the hole of the speaker rear panel on the screw attached to the wall.
4. Check that the speakers are firmly mounted.

Connection of Options *(Optional Parts)*

Connect separately sold parts as shown in the figure.
Do not plug the power cord into the power outlet until all of the required connections have been made.

FM outdoor antenna

Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75Ω termimal.

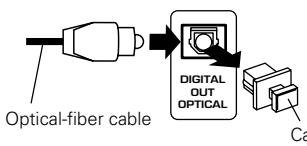


Notes

1. All of the optical-fiber cables sold in audio stores cannot always be used. If the cable you purchased cannot be connected to this unit, please consult your dealer or KENWOOD distributor.
2. Insert the optical-fiber cable straight into the connector until it clicks.
3. Be sure to attach the protection cap when the connector is not used.
4. Never band or bundle the optical-fiber cable.

(Except for U.S.A. and Canada)

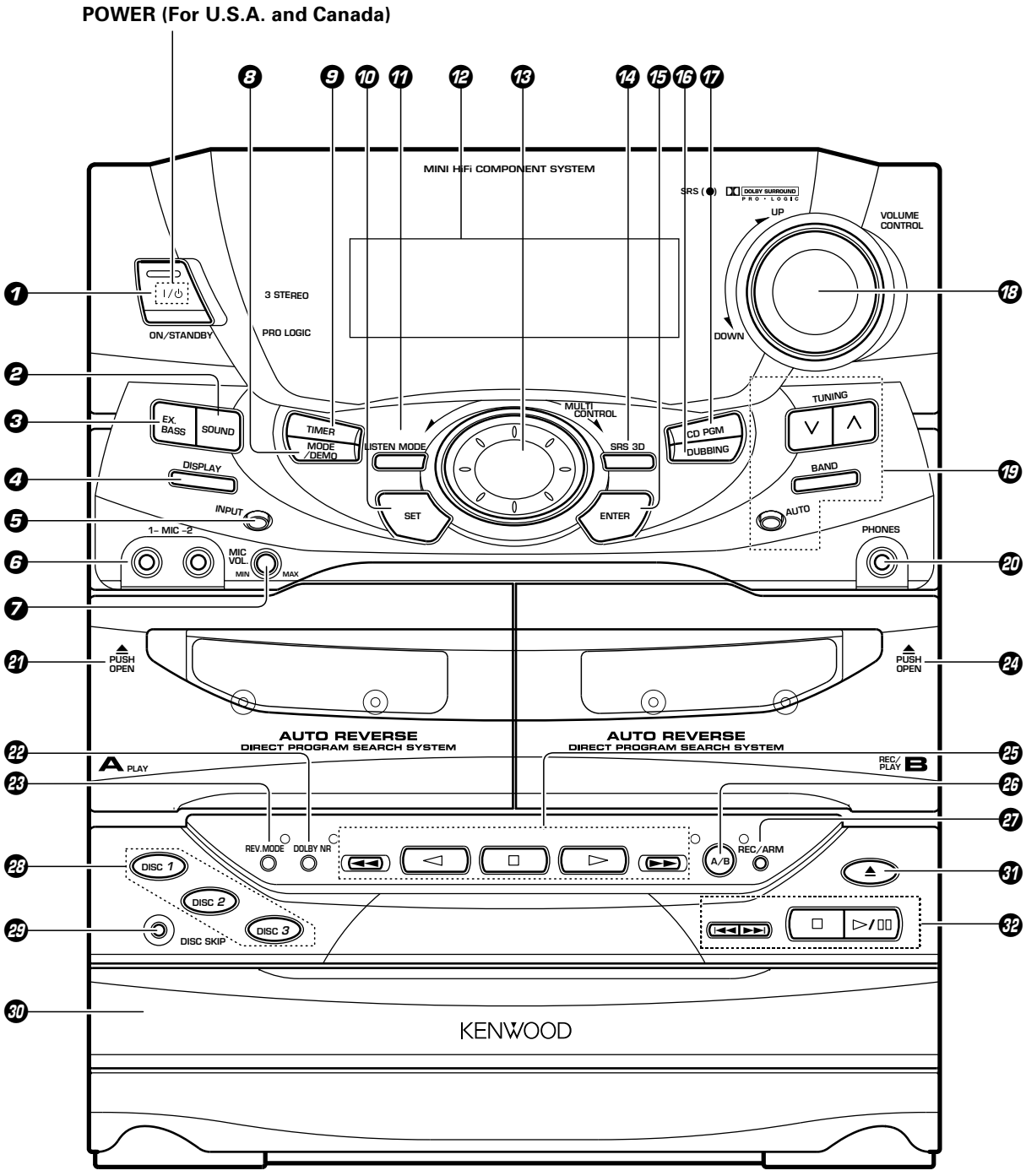
DIGITAL OUT jack (OPTICAL)



If necessary, remove the cap and plug the optical-fiber cable (optional).

Main Unit

The external view is variable depending on the model and marketing destination area.



Receiver

❶ ON/STANDBY (| / ⏻ POWER) key → 18
Power ON/OFF switching is executed.

❷ SOUND key → 48
Used for the equalizer mode setting, etc.

❸ EX. BASS (Extra bass) key → 19
Switches the extra bass play on and off.

❹ DISPLAY key → 48
Switches the displayed information.

❺ INPUT key → 18
Press to select the input source. When TAPE or CD is selected, playback starts automatically provided that a tape or disc has already been loaded.

❻ MIC 1, MIC 2 jacks (Except for some areas) → 55
For connection of a microphone (optional).

❼ MIC VOL. knob (Except for some areas) → 55
At the time of mic mixing , this knob controls the volumes of the microphones.

❽ MODE/DEMO key → 4 → 19 → 47 → 50
Used for setting or selection of various modes.
The items which can be selected differ according to the status at that time.
When power is STANDBY: Switches the demonstration on and off.

❾ TIMER key → 56 → 57 → 58
Used for time adjustment, timer setting, etc.

❿ SET key → 19
Used for setting of various modes or establishing a selection.

⓫ LISTEN MODE key/Indicator → 51
Used for setting the surround modes and sound field effects.

⓬ DISPLAY → 14

⓭ MULTI CONTROL jog dial → 17
Used for selection of various modes.

⓮ SRS 3D key/Indicator → 50
Switches the SRS 3D play on and off.

⓯ ENTER key → 19
Used for entering a selected mode in memory or executing it.

⓰ DUBBING key → 31 → 43 → 46
Used for tape dubbing or CD recording onto tape.

⓱ CD PGM key → 32
Used for programming CD tracks.

⓲ VOLUME CONTROL knob → 18
This is used for volume adjustment.

⓳ Tuner operation keys → 26 → 27
TUNING keys
Press to select a radio station.
BAND key
Press to switch the receiving band.
AUTO key
Switches the tuning mode.

⓴ PHONES jack → 18
For connection of a headphone (optional).

Cassette deck unit

㉑ A deck cassette holder
Press the area marked ⏏ **PUSH OPEN** to load or eject a tape.

㉒ DOLBY NR key → 23
Dolby noise reduction ON/OFF switching is executed.

㉓ REV. MODE key → 23
The reverse mode of the deck (both sides, repeated, one side) is switched.

㉔ B deck cassette holder
Press the area marked ⏏ **PUSH OPEN** to load or eject a tape.

㉕ Cassette deck operation keys → 22 → 23
Play (◄ ►) keys
Stop (■) key
Fast forward and rewind (◄◄ ►►) keys

㉖ A/B key → 22
Press to select the deck to be operated.

㉗ REC/ARM key → 29 → 31
Press to start recording. Pressing the key during recording stops it after leaving a non-recorded space (blank) of about 4 seconds.

CD player unit

㉘ DISC SELECTOR keys → 21
The disc for playback (or recording) is selected.

㉙ DISC SKIP key → 21
The disc for playback (or recording) is selected. This is also used for insertion of a CD to the inside of the disc tray.

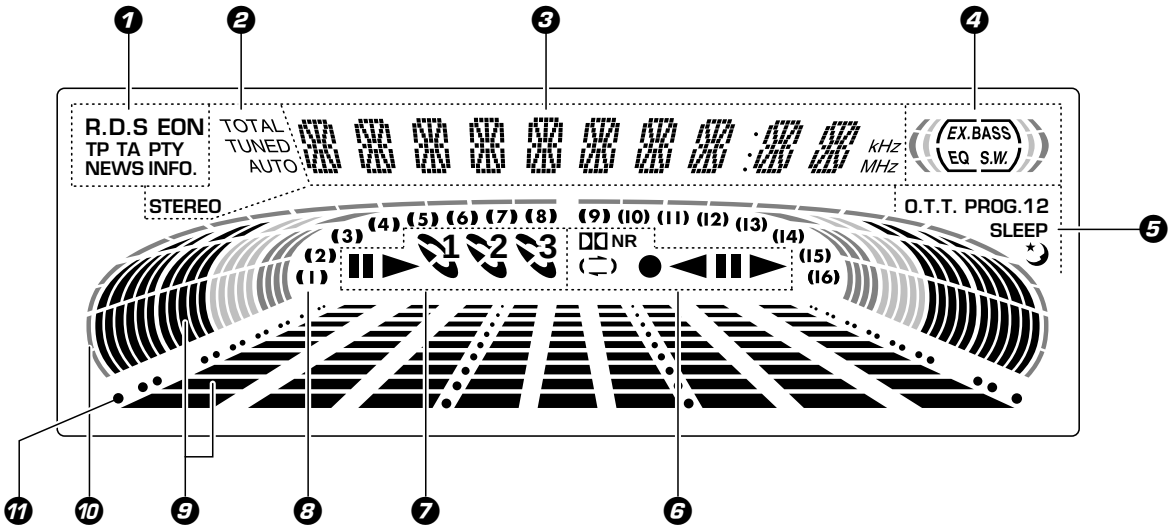
㉚ Disc tray → 20
Three discs can be stored.

㉛ OPEN/CLOSE (⏏) key → 20
The disc tray is opened and closed.

㉜ CD operation keys → 20 → 21
Play/pause (►/II) key
Stop (■) key
Skip (I◄◄ ►►I) keys

Display

**(The displays given in this manual are approximations only.
They may differ from what actually appears on the display.)**



❶ RDS-related indicators (For U.K., Europe and Russia)

❷ Tuner and applied CD operation indicators
This section contains the indicators of the tuner operations and applied CD operations.

❸ Character information display
Displays the input selection, frequency, volume level, etc.

❹ Tone and sound field-related indicators

❺ Timer-related indicators

❻ Cassette deck indicators
This section contains the cassette deck operation indicators. The indicated information includes the tape reverse mode and tape transport direction.

❼ CD player indicators
This section displays the CD playback and pause mode information as well as the disc number being played.

❽ Track number indicators
Indicates the CD track number being played.

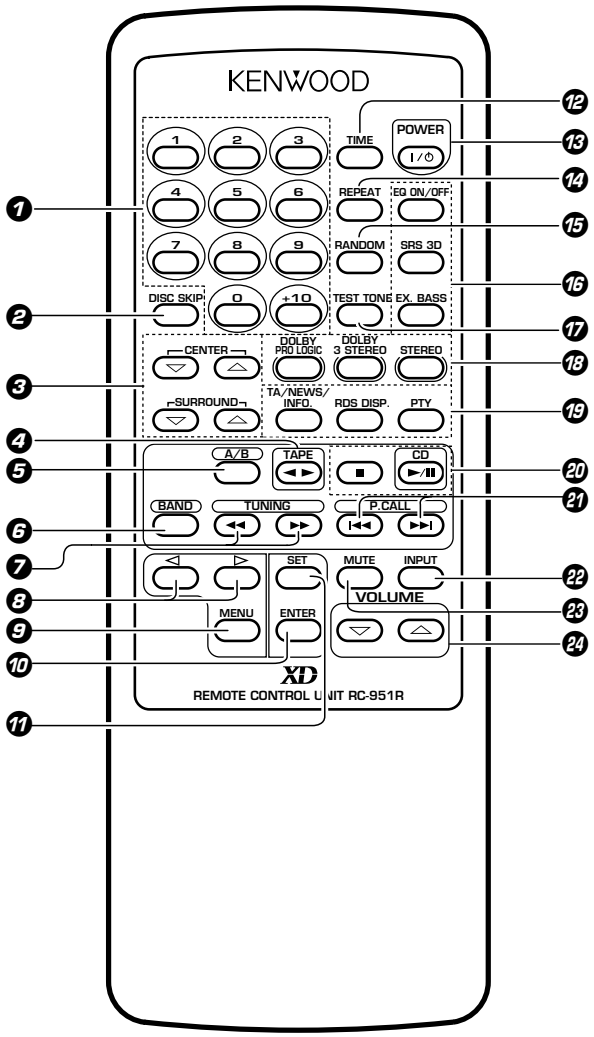
❾ Spectrum analyzer display

❿ Running indicator
This indicator rotates according to the operation modes during operation of the CD player, cassette deck, etc. It also shows the approximate sound level during volume control.

⓫ Guideline
Blinks during the setting of an item using the jog dial. → 17

Remote control Unit

The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.



Europe, U.K. and Russia : RC-951R
Other countries : RC-951

Model: See left.
Infrared ray system.

❶ Numeric keys → 21
Used as number keys when the input is CD or TUNER.

❷ DISC SKIP key → 21

❸ Surround volume adjustment keys → 52 → 53

❹ Cassette deck operation (◄ ►) key → 22

❺ A/B key → 22

❻ BAND key → 26

❼ TUNING/CD/cassette (◄◄ ►►) keys → 21 → 23 → 26

❽ Multi menu up/down keys → 17

❾ MENU key → 17
Used to switch the function of the **MULTI CONTROL** keys.
The function items that can be selected with the **MULTI CONTROL** keys are variable depending on the current operation status.
Items such as CD PGM, DUBBING, SOUND, DISPLAY, TIMER, LISTEN MODE and MODE are selected using keys ❽.

❿ ENTER key → 19

⓫ SET key → 19

⓬ TIME key → 20
Press to switch the time information on the CD player unit.

⓭ ON/STANDBY (| / ⏻ POWER) key → 18
Power ON/OFF switching is executed.

⓮ REPEAT key → 34
Used for repeated playback of a CD.

⓯ RANDOM key → 36
For CD playback, switching is executed between random playback and normal playback.

⓰ Tone and sound field-related keys

EQ. ON/OFF key → 48
Press to switch the equalizer ON and OFF.

SRS 3D key → 50

EX. BASS key → 19

⓱ TEST TONE key → 52

⓲ Surround operation keys → 51 → 52 → 53

⓳ RDS-related keys (For U.K., Europe and Russia)

TA/NEWS/INFO. key → 40
Used for automatic reception of transmissions of a certain content.

RDS DISP. key → 37
The display contents are switched during reception of RDS broadcasts.

PTY key → 38
This is used to specify the program type when searching for a station.

⓴ CD operation keys

CD play/pause (►/II) key

Stop (■) key

㉑ P.CALL (Preset Call)/skip (I◄◄ ►►I) keys
Used to recall a preset radio station. → 26
During CD playback, press to skip CD tracks. → 21

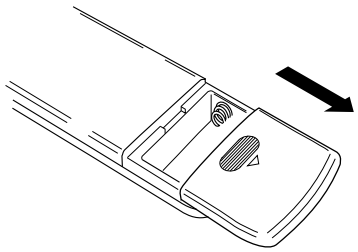
㉒ INPUT key → 18

㉓ MUTE key → 19
This is used to mute the sound temporarily.

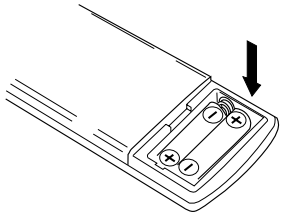
㉔ VOLUME keys → 18

Loading batteries

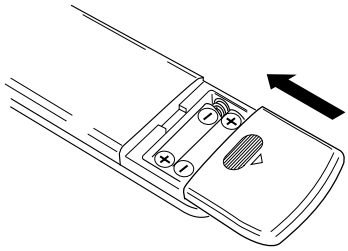
❶ **Remove the cover.**



❷ **Insert batteries.**



❸ **Close the cover.**



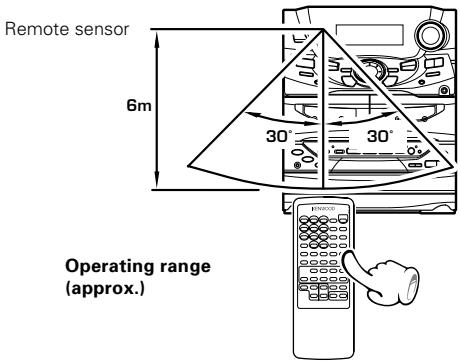
- Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

Plug the power cord into the mains power outlet and press the on/standby (| / ⏻ POWER) key of the remote control unit to turn power ON. After the power has been turned ON, press the desired key.

To turn power off, press the on/standby (| / ⏻ POWER) key again. The system enters the standby mode in which only the time display is lit.

- When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.



Notes

1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high- frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

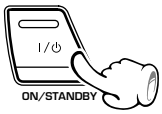
CHANNEL SPACE setting

(Except for the U.S.A., Canada, U.K., Europe, Russia and Australia)

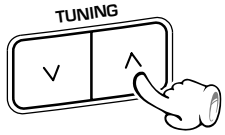
The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM (MW/FM) broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

	Area	CHANNEL SPACE freq.
1	U.S.A., Canada and South American countries	FM : 100 kHz AM : 10 kHz
2	Other countries	FM : 50 kHz AM : 9 kHz

❶ **Turn power off.**

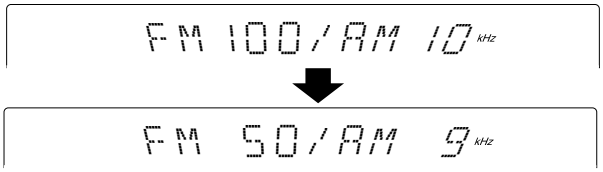


❷ **Select the channel space.**



Each press switches the space frequency alternately.
① "FM100/AM10 kHz" ..... STEP,
② "FM 50 /AM 9 kHz" ..... STEP,

- The "AM" display is variable depending on the model (country or area), and "MW" may be displayed in some areas.



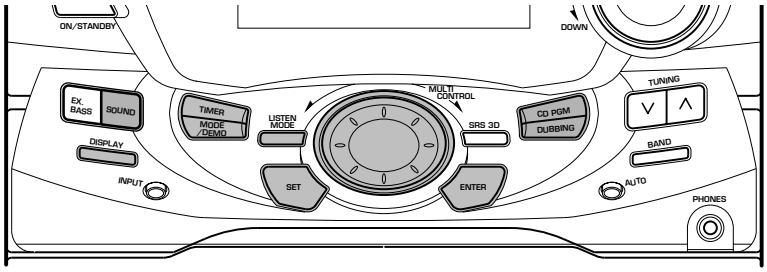
❸ **Establish the selection.**

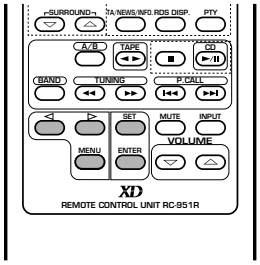
MULTI CONTROL jog dial

The MULTI CONTROL jog dial allows you to set (or enter) a variety of functions with an easy operation.

The mode for setting (using) MULTI CONTROL is initiated when any of the CD PGM, DUBBING, SOUND, DISPLAY, TIMER, LISTEN MODE and MODE/DEMO keys is pressed.
In the setting mode, select the operation mode with the MULTI CONTROL jog dial and press the SET and/or ENTER key(s) to set, establish, enter or execute the function.
(The ENTER key is always pressed at the end.)

With the remote control unit, pressing the MENU key makes it possible to select the same items as those available on the main unit using the MENU (up▷/down◁) keys.





CD PGM
DUBBING
SOUND
DISPLAY
TIMER
LISTEN MODE
MODE

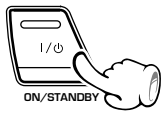
- During the setting of an item (while the guideline is blinking), other keys are defeated except for the basic control keys such as the **VOLUME CONTROL** and **ON/STANDBY** keys.
- To cancel the mode for setting (using) MULTI CONTROL, read the description of each item in this manual.

For Russia

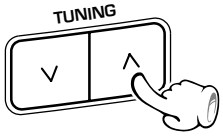
Reception mode switching of FM broadcast

When you want to receive an FM broadcast in PILOT TONE mode, changing the setting as follows.

❶ Turn power off.



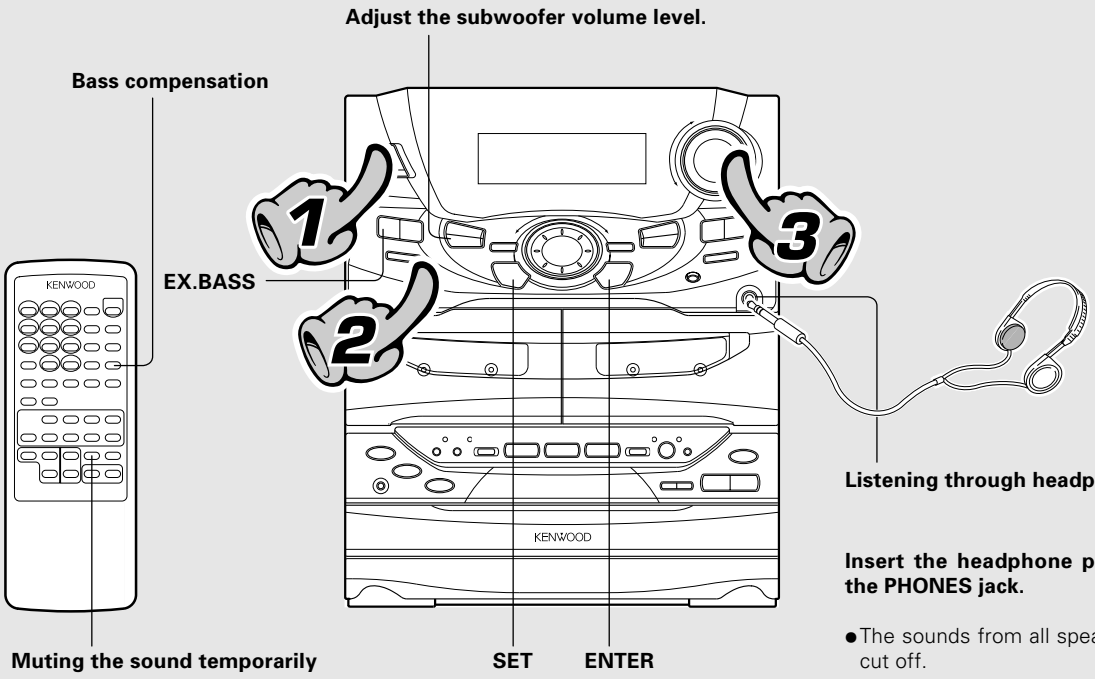
❷ Press the TUNING (∧) key.

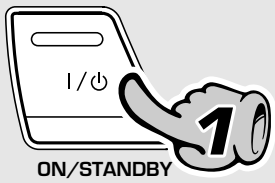


Each press switches the reception mode alternately.
① POLAR system
② PILOT TONE system

❸ Establish the selection.

Basic use method





1. Switching the power ON (OFF)

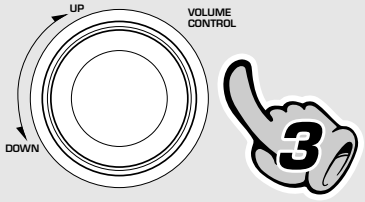
The power can also be turned ON by pressing the play key of the CD player, the play key of the cassette deck or the BAND key of the tuner.
When the ON/STANDBY key is pressed while the power is ON, the power will be switched OFF.

● The display part becomes dark when the power is switched OFF. (DIMMER function)

2. Selecting the desired output

- ① **TUNER (Radio)** → 26
- ② **CD** → 20
- ③ **TAPE** → 22
- ④ **AUX (External input)** → 11

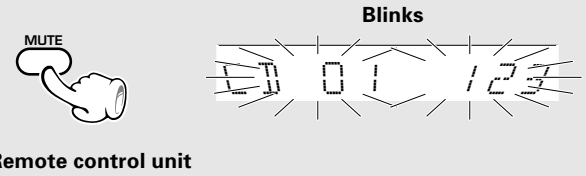
● When you select the AUX input, be also sure to read the instruction manual of the component connected to the AUX input jacks.
(AUX INPUT LEVEL adjustment → 47)
● When CD or TAPE is selected, playback will start when a disc or a tape already has been inserted into disc tray or deck B.



3. Volume adjustment

● Quick turning produces a larger change amount. (AI VOLUME control function)
● The display shows a reference value.

Muting the sound temporarily (Remote control unit only)



- Press again to resume the original volume.
- The sound muting is also canceled when the volume is controlled.

Bass compensation (EX.BASS)

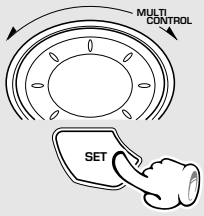
- Each press switches EX.BASS on and off alternately.
- The EX.BASS is switched off automatically during recording.

Sub woofer level adjustment
(Except for the XD-A700)

Adjust the sub woofer level according to the category of music and your liking.

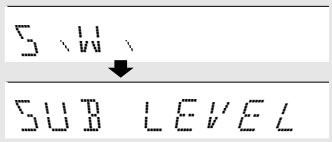
❶ Press the MODE/DEMO key.

❷ Select "S.W." and press the SET key.

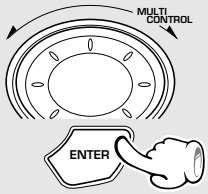


- **SRS LEVEL**
  (Only when SRS 3D is ON)
- **S.W.**
- **L/R BALANCE**

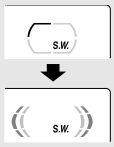
Go to step ❸ within 15 sec.



❸ Select the desired level and press the ENTER key.



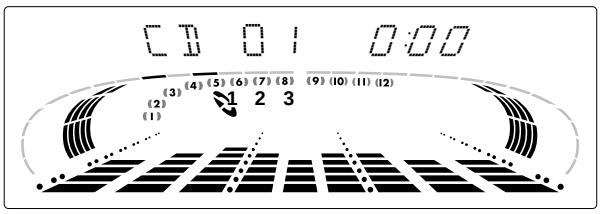
- **OFF**
- **LEVEL 1**
- **LEVEL 2**
- **LEVEL 3**
- **LEVEL 4**
- **LEVEL 5**



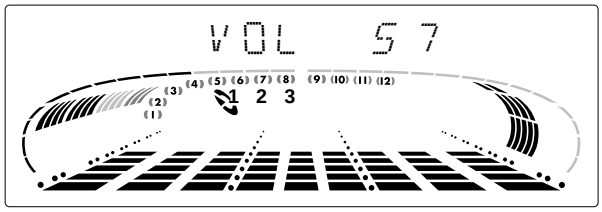
STANDBY mode of ON/STANDBY (I / ⏻) key

When the display shows the time or "- - : - -", a small amount of current is supplied to the unit to back up the internal memory. This status is referred to as the STANDBY mode, and the unit in the STANDBY mode can be turned ON from the remote control unit.

When CD has been selected.



Volume display

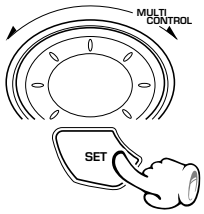


AUTO POWER SAVE function

When the power is ON and neither recording nor playback is executed for 30 minutes or more, the power is switched off automatically by this function. This function can be made active or not active by the following operation.

❶ Press the TIMER key.

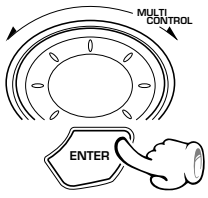
❷ Select "AUTO POWER SAVE" and press the SET key.



- **SLEEP**
- **TIME SET**
- **O.T.T.**
- **PROG. ON/OFF**
- **PROG. 1**
- **PROG. 2**
- **AUTO POWER SAVE**

❸ Select "ON" or "OFF" and press the ENTER key.

← Scrolled display
(AUTO POWER SAVE)

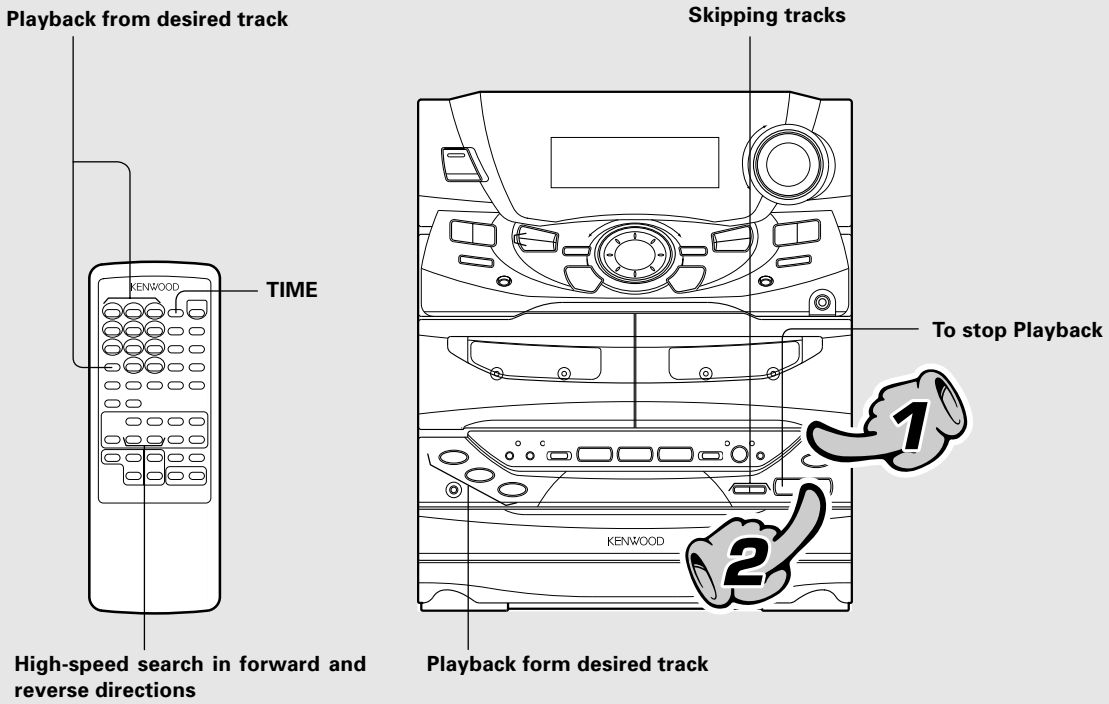


- **ON ..... Auto power save is used.**
- **OFF .... Auto power save is not used.**
- RETURN

- This function is not available when the AUX input is selected. When the TUNER input is selected, it is available only when the volume is set to 0.

Playback of CD

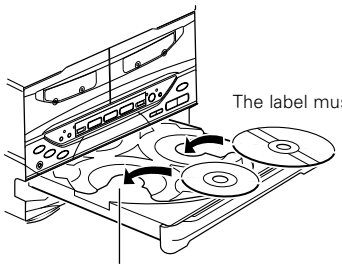
If a disc has already been loaded in the CD player and the power is OFF, simply pressing the CD play key turns power automatically ON and starts playback.



The tray opens when the key is pressed and closes when the key is pressed again.

1. Load a disc.

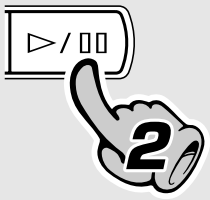
❶ Open the tray.
❷ Place a disc.
❸ Close the tray.



The label must be on top.

Disc played first when the ►/II key is pressed.

2. Start playback.



●After a few seconds, play starts from track No.1.

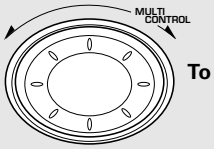
Time display on the CD player

Each press of the TIME key of the remote control unit switches the displayed time information.

●Only the time information related to the track being played can be displayed in the program, CD EDIT and random modes.

① 1:23 **Elapsed time of track being played**
② -2:37 **Remaining time of track being played**
③ 23:45 **Elapsed time of disc (TOTAL lights up)**
④ -36:15 **Remaining time of disc (TOTAL lights up)**

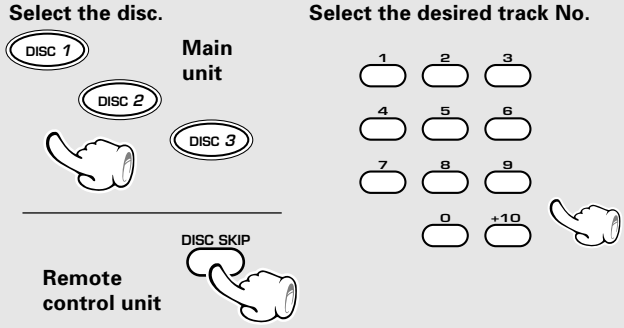
Skipping tracks



To skip backward To skip forward

- The tracks in the direction the dial is rotated are skipped, and the selected track will be played from the beginning.
- When the jog dial is rotated a little in the direction of counterclockwise once during playback, the track being played will be played from the beginning.
- The CD tracks can also be skipped using the I◄◄ or ►►I key of the remote control unit and main unit.

Playback from desired track



Press the numeric keys as shown below....

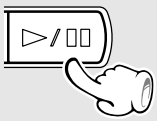
To enter track No. 23 : [+10] [+10] [3]

To select track No. 40 : [+10] [+10] [+10] [+10] [0]

High-speed search in forward and reverse directions

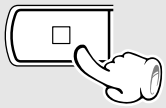
- Playback starts from the position where the key is released.

To pause playback

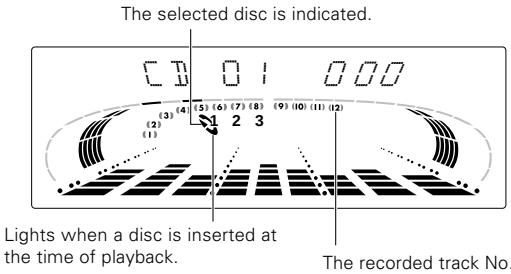


- Each press pauses and plays the CD alternately.

To stop playback

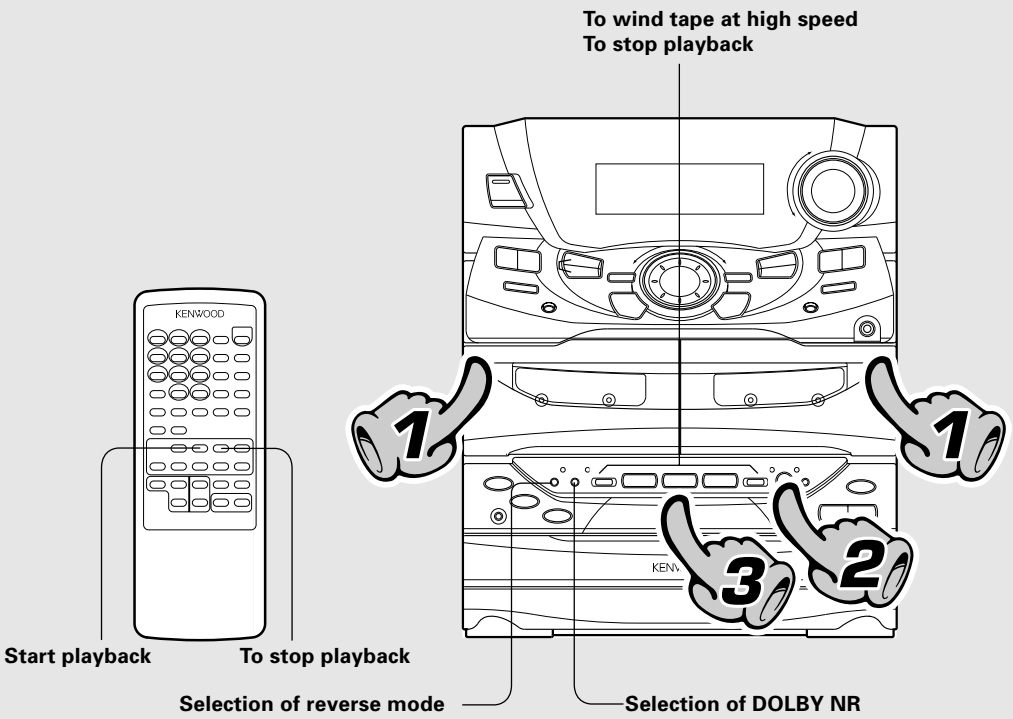


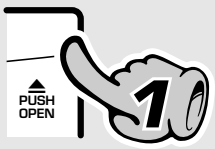
- Do not touch the played side of disc.
- Rotate the tray with the **DISC SKIP** key to insert the third disc.
- The tray of the disc to be played should come to the left position when the unit is seen from the front.


The selected disc is indicated.
CD 01 000
1 2 3
Lights when a disc is inserted at the time of playback.
The recorded track No. are shown.

Playback of tape

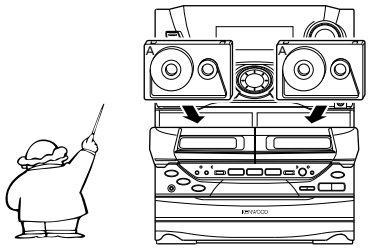
If you load a tape in a cassette deck (deck B) while the power is off, simply pressing the tape play key turns power automatically ON and starts playback with deck B.



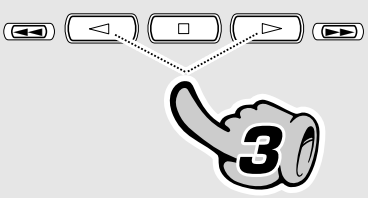


1. Load a cassette tape.

❶ **Open the door.**
❷ **Insert a tape and close the door.**



2. Select the deck to be used for playback.



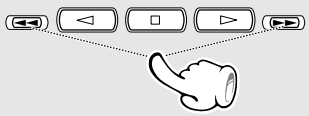
3. Start playback.

Press the play key of the desired direction.

- When playing back a recording using the equalizer or SRS 3D effect, switch the equalizer or SRS 3D effect.

To wind tape at high speed

To fast wind in direction ⬅ **To fast wind in direction ➡**



- Press the ■ key to stop fast winding.

Selection of reverse mode.

Each press switches the modes as follows.

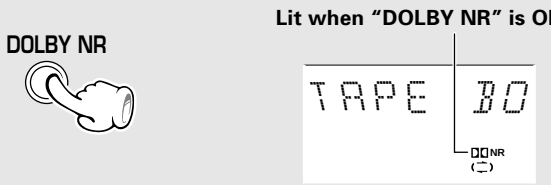
① **"⇄" ... Both sides are played back (recorded), and then the tape stops.**
② **"↻" .. Both sides are played back endlessly. (The tape stops after recording onto both sides.)**
③ **"⇄" .. Only one side is played back (recorded), and then the tape stops.**

To stop playback

- Do not take out the cassette tape until the tape transport has stopped completely.

Selection of DOLBY NR *(Noise Reduction)*

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with DOLBY NR ON, be sure to set the DOLBY NR ON for playback.

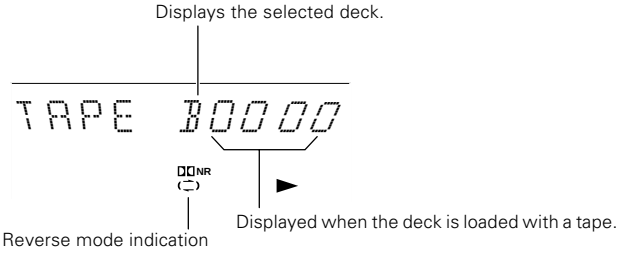


Each press switches the modes as follows.
① **"□□ NR" ON .....DOLBY NR is used.**
② **"□□ NR" OFF .....DOLBY NR is not used.**

- Select the Dolby NR mode according to the recording condition of the tape.

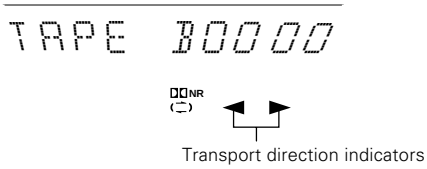
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

- Normal (TYPE Ⅰ), high (TYPE Ⅱ), or metal (TYPE Ⅳ) tape selection is set automatically.
- Remove tape slack before loading.
- Close the door securely.



Transport direction indicators

The indicators (◄ , ►) indicate the current direction in which the tape advances when playback or recording is started automatically by the easy operation function, etc. This direction is the direction stored in memory when the tape was last stopped. (To switch the tape transport direction, press the play key corresponding to the desired direction then press the stop (■) key.)



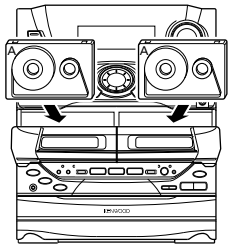
- Only the tape transport direction of deck B is shown when the selected input is other than TAPE.
- To see the tape transport direction of deck A, press the **A/B** key to switch to deck A.

- If the tape transport direction is opposite to the desired direction, press the play key corresponding to this.

Note Please play back tapes recorded with equalizer etc. without applying any effect.

Relay play

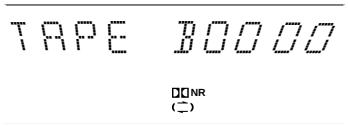
When tapes are set in the decks A and B and the reverse mode is set to "⇄" (play of both sides), play of the second deck will be started automatically after play of the first deck has been completed. Tape play will be repeated alternately.



● Relay play is not possible in the reverse modes "⇆" and "⇄".

A tip for use of the tape counter

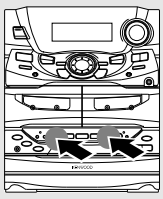
The tape counter is set to "0000" when a cassette tape is loaded. By writing down the counter reading in case you want to interrupt recording (playback) in the middle of the tape, the memo will be helpful as a reference for locating the same position when continuing the recording (playback) the next time. The tape counter figure decrements during recording or playback of the back side (while the ◄ tape transport indicator is lit).
To set the tape counter to "0000", open the cassette holder once. Then the counter will be reset.

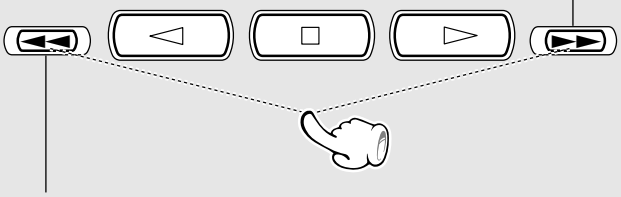


Searching for the desired music program (DPSS)

The DPSS (Direct Program Search System) is capable of detecting non-recorded spaces of more than 4 seconds as "blanks between programs" and, based on this information, can return to the beginning of the music program being played or the beginning of a desired program by skipping up to 16 other programs.

During play in direction ►

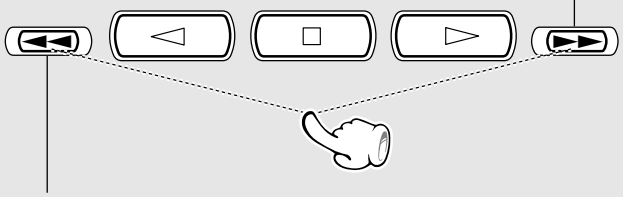




To play the next program : Press once.
To play the 4th program after the current program : Press 4 times.

To return to the beginning of the current program : Press once.
To play the 4th program before the current program : Press 5 times.

During play in direction ◄



To return to the beginning of the current program : Press once.
To play the 4th program before the current program : Press 5 times.

To play the next program : Press once.
To play the 4th program after the current program : Press 4 times.

Notes

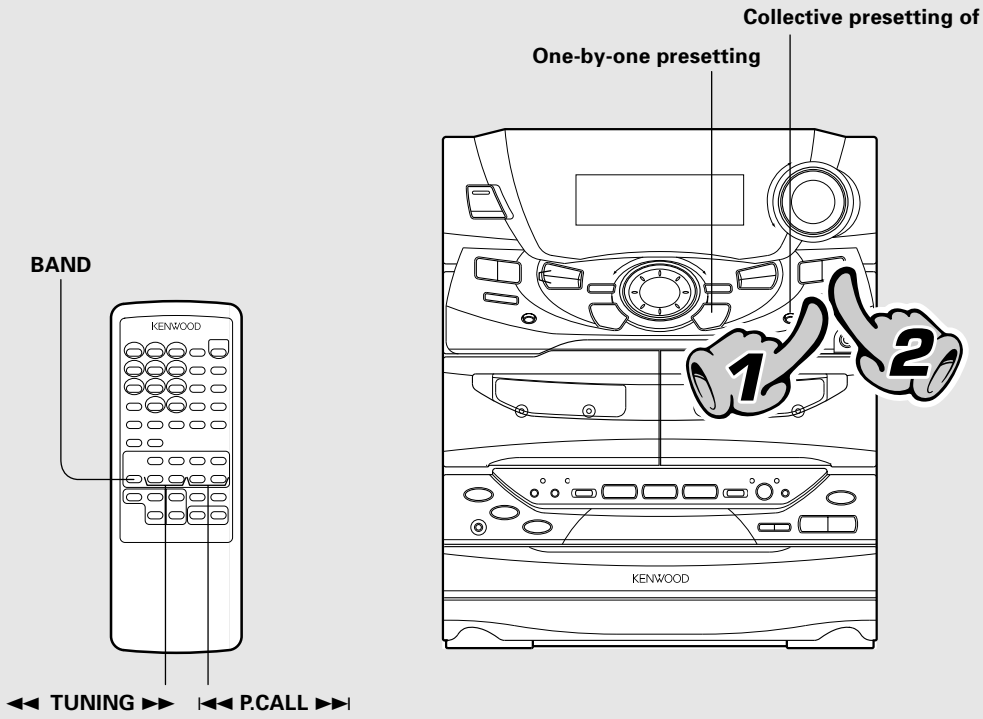
The DPSS may not function normally with the following kinds of tape.

- Tapes containing several no-sound intervals of more than 4 seconds, such as conversation and talk tapes.
- Tapes containing pianissimo sections, such as classical music tape.
- Tapes in which large noise is recorded in blanks between programs.
- Tapes containing blanks between programs that are shorter than 4 seconds.
- Tapes recorded at low level.
- Tapes recorded by cross-fade recording (in which the beginning of next program is overlapped on the end of previous program).

Receiving broadcast station

It is also possible to receive them by one-touch operations by storing up to 40 stations in the preset memory.

When the BAND key is pressed, this unit will be switched on automatically.



1. Select the broadcast band.

Each press changes the band.

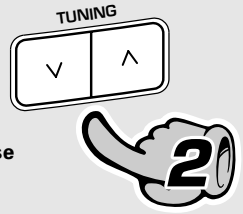
① FM
② AM

or

① FM
② MW (AM)
③ LW

●The broadcast bands are variable depending on the model (country or area).

To increase frequency



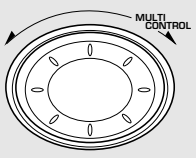
To decrease frequency

2. Select a station.

When no stations have been memorized

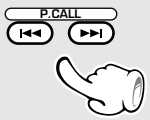
Auto tuning : Each press receives the next station.
Manual tuning : Press the key repeatedly or hold it depressed until a station is received.

Select a station.



When stations have been memorized (preset call)

Remote control unit



Every time the key is pressed, the preset stations are switched over as follows.

Press ►►I for the order of 1→2→3 ... 38→39→40→1...
Press I◄◄ for the order of 40→39→38 ... 3→2→1→40...

Collective presetting of stations (auto preset)

Keep the AUTO key depressed (about 2 seconds).

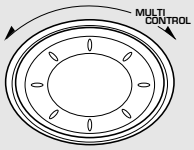
- Some stations may not be able to be preset if their reception conditions are weak.

One-by-one presetting (manual preset)

❶ Press the ENTER key during reception.

Presetting is cancelled when no operation is executed for 10 seconds or more.

❷ Select one of the preset numbers from 1 to 40.



Presetting is cancelled when no operation is executed for 5 seconds or more.

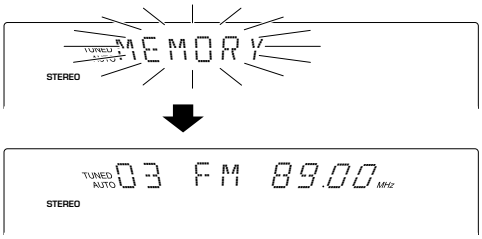
❸ Press the ENTER key again.

For Europe and U.K. (during FM reception)

"MEMORY" is displayed during AM (MW) reception.

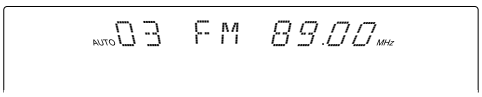
Other countries (FM/AM)

- A maximum of 40 stations is preset automatically by giving the first priority to the stations in the current receiving band.
- When there are many stations and the intended station has not been preset, please also use "One-by-one presetting (manual preset)".
- The stations which have been preset manually are overwritten.



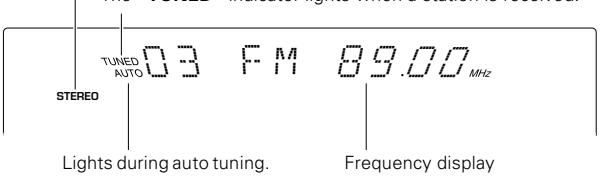
- Repeat steps ❶❷❸ to preset other stations.
- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.

Example when an FM station is received



Lights during stereo reception

The **"TUNED"** indicator lights when a station is received.



Lights during auto tuning. Frequency display

- When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.
- Preset stations can also be recalled using the numeric keys of the remote control unit.

Select the tuning mode.

Each press alternates the mode.
① "AUTO" lit (Auto tuning)
② "AUTO" not lit (Manual tuning)

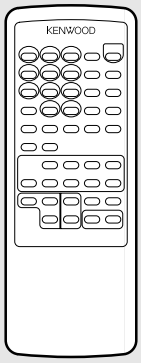
Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

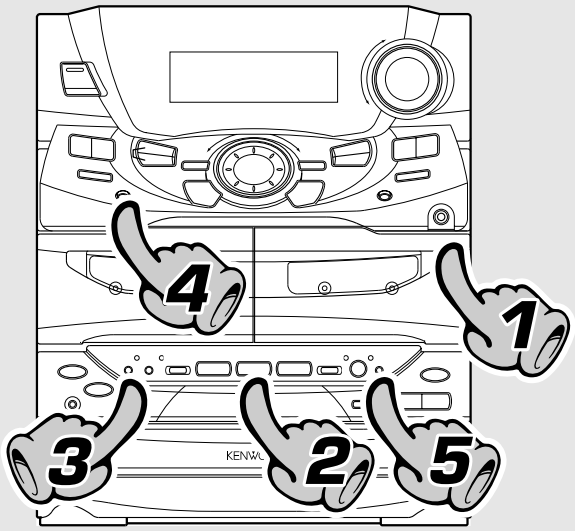
- Normally, use the **AUTO** (Auto tuning) mode.

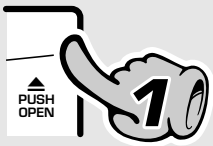
Recording (Deck B only)

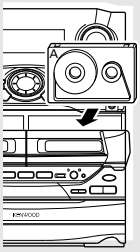
Note that this cassette deck cannot record onto Metal tapes.

When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded . →48
When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.







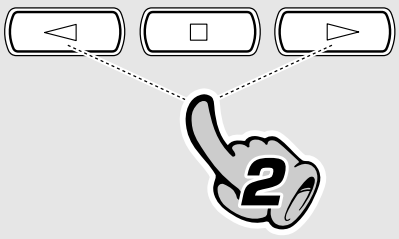


1. Load a tape in deck B.

❶ Open the door of deck B.
❷ Insert a tape.
❸ Close the door.

- Differentiation between normal (TYPE Ⅰ) and high (TYPE Ⅱ) tape is set automatically.
- Remove tape slack before loading.

(Except for some areas)
- When the microphone is not used, set the **MIC VOL.** control knob fully counterclockwise to the minimum position.



2. Select the tape transport direction.

To reverse the transport direction

❶ Press the play key corresponding to the desired direction.
❷ Stop playback (by pressing the □ key).

- When recording is started, the tape is transported in the direction selected in this step.
- Wind the tape to the position where recording is to be started.

Check the tape transport direction indicator.

3. Set the recording condition.

❶ Select the reverse mode.
❷ Select the DOLBY NR mode.

Selection of the reverse mode

REV.MODE

Each press switches the modes as follows.

- ① "⇄" ... **Both sides are played back (recorded), and then the tape stops.**
- ② "↻" .. **Both sides are played back endlessly. (The tape stops after recording onto both sides.)**
- ③ "⇄" .. **Only one side is played back (recorded), and then the tape stops.**

To pause recording

REC/ARM

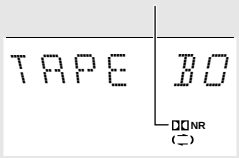
- Pressing the key pauses recording after leaving a non-recorded space of about 4 seconds.
- If the key is pressed again in less than 4 seconds after it has been pressed, recording resumes from that instant.

Selection of DOLBY NR (Noise Reduction)

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with Dolby NR ON, be sure to set the DOLBY NR ON for playback.

DOLBY NR

Lit when "DOLBY NR" is ON.



Each press switches the modes as follows.

- ① "DOLBY NR" ON..... **DOLBY NR is used.**
- ② "DOLBY NR" OFF ..... **DOLBY NR is not used.**

4. Select the source to be recorded.

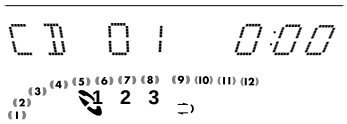
INPUT 4

Select an input source other than "TAPE".

- ① **TUNER (Radio)**
- ② **CD**
- ③ **TAPE**
- ④ **AUX (External input)**

(AUX INPUT LEVEL adjustment → 47)

The input source component to be recorded should be displayed.

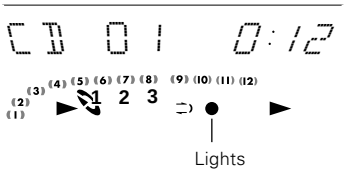


- When the CD input is selected and if a disc has been set in the CD player, its playback starts immediately.

5. Start recording.

REC/ARM 5

❶ **Play (or tune) the input source to be recorded.**
❷ **Start recording.**



- Recording stops automatically when the tape side(s) to be recorded have been fully recorded.

Points in CD recording

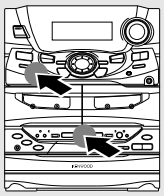
When recording CD tracks onto a tape, if you leave the cassette deck in record-pause mode beforehand, the cassette deck recording can be started at the same time as the CD starts to be played. (Synchro recording function)

❶ Put the CD player in pause mode.
❷ Select the track to be recorded with the skip (I◄◄, ►►I) keys.
(The CD player pauses at the beginning of the selected track.)
❸ Put the cassette deck in Record-pause mode.
(Press the REC/ARM key twice.) → 29
❹ Start playing the CD.
(Synchro recording starts)

● Recording stops when the stop key of the CD player is pressed.

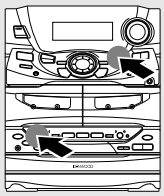
Copying tape *(Tape dubbing)*

The contents of the tape in deck A can be copied onto the tape in deck B.



❶ Select the "TAPE" input.

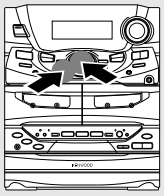
❷ Press the stop key.



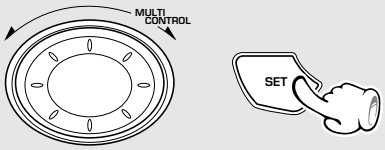
❸ Select "⇄" (double-side recording) or "⇆" (one-side recording).

❹ Press the DUBBING key.

❺ Select "TAPE DUBBING" and press the SET key.



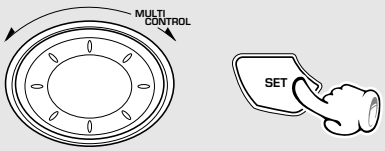
1. Select. **2. Press SET.**



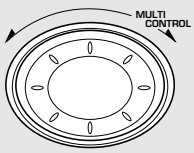
❻ Use the same tape transport directions.

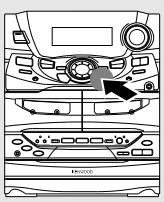
(1) Select the transport direction of deck A.

1. Select. **2. Press SET.**



(2) Select the transport direction of deck B.

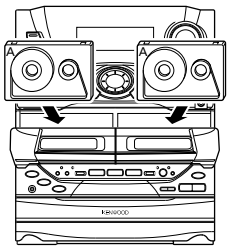




❼ Start dubbing.

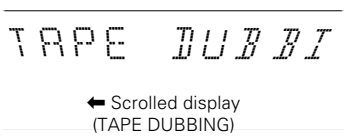
Load tapes in the decks.

Playing tape



Recording tape

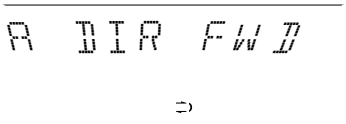
- **CD RECORD**
- **CD EDIT**
- **CD PGM RECORD**
- **TAPE DUBBING**



⬅ Scrolled display (TAPE DUBBING)

- When recording is started, the tape will be transported in the direction selected in this step.

Check the tape transport direction indicators.



- **A DIR FWD**
- **A DIR RVS**

⇄

- **B DIR FWD**
- **B DIR RVS**
- RETURN

- By selecting "RETURN" and pressing the **ENTER** key, the operation returns to the previous step so the current step can be restarted.
- Dubbing ends automatically when the side(s) to be dubbed has been completed.

To stop dubbing

REC/ARM

- The deck B will stop after creating a non-recorded portion of about 4 sec, and then the deck A will stop.
- Dubbing can also be stopped by pressing the stop (■) key. Note that the non-recorded space is not created in this case.

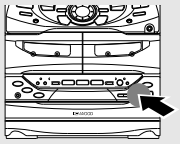
Note The **DOLBY NR** key is not active in dubbing mode. The tape recorded on deck B assumes the same Dolby NR condition as the tape played on deck A.

Listening in the desired sequence *(program playback)*

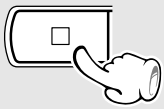
Any titles on the discs in the tray can be listened to in the desired sequence. (Max. 32 titles)

Select the "CD" input.

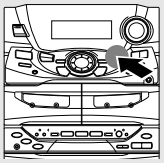
1 *Check that the CD player is in the stop mode.*



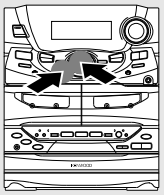
If it is in play mode



2 *Press the CD PGM key.*

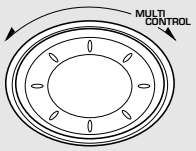


3 *Enter track Nos. in the order you want to play them.*



❶Select the disc.

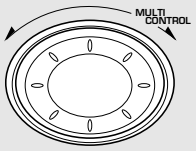
1. Select.



2. Press SET.

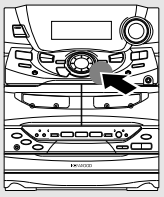
❷Select the track.

1. Select.



2. Press SET.

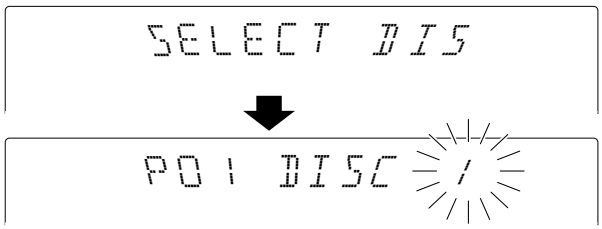
To select other tracks, repeat steps ❶ and ❷ for each of the additional tracks.



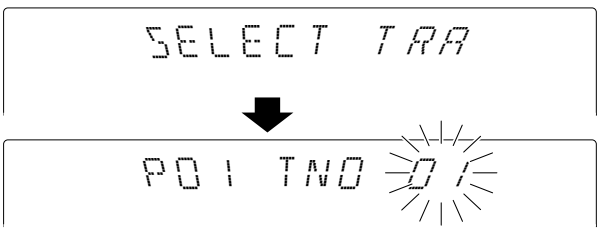
❸Enter it.

● Press the **CD PGM** key during to program the track being played.

⬅ Scrolled display (SELECT DISC)

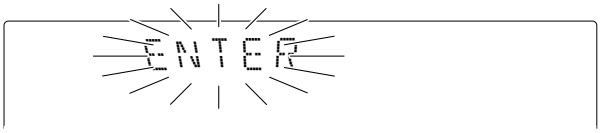


⬅ Scrolled display (SELECT TRACK)



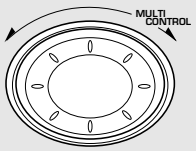
● Even if you program a disc or track which does not exit in the tray, it is deleted automatically in playback.
● If you select "RETURN" and press the **ENTER** key, you can return to the previous step and re-perform the operation.

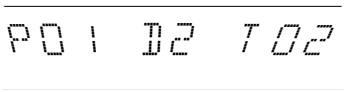
● Up to 32 tracks can be programmed. When **"FULL"** is displayed, no more tracks can be programmed.



4 Check the programmed tracks (and replace, add or delete tracks as required).

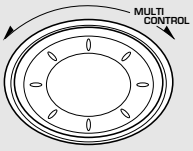
To check:





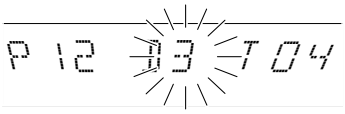
- The programmed tracks are displayed in sequence.

To replace a track in the program:



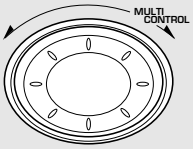
❶ **Select the programmed disc or track to be replaced and press the SET key.**

❷ **Select a disc or track to replace the disc or track selected above (step 3-❶ and ❷).**



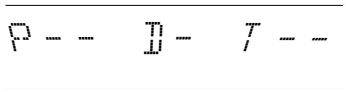
- The blinking item can be replaced.

To add a track to the program:



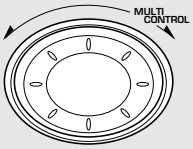
❶ **Select the display as shown on the right and press the SET key.**

❷ **Perform the same operations as in step 3-❶ and ❷.**



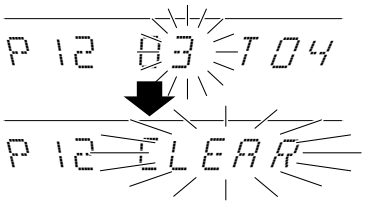
- The added track number is added to the end of the existing program.

To delete a track from the program:



❶ **Select the programmed disc or track to be cleared and press the SET key.**

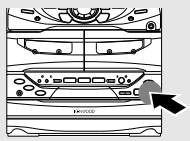
❷ **Select "CLEAR" and press the SET key.**

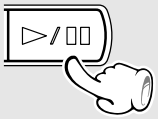


To end the above operation:

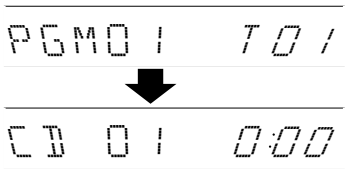
To perform an operation in step 4 after ending it, press the CD PGM key once.

5 Start playback.



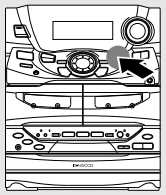


- When the I◄◄ or the ►►I key is pressed during play, the program will jump to the preceding or the following track respectively.
- When the I◄◄ key is pressed once during playback, the play position returns to the beginning of the current track being played.
- When the **TIME** key of the remote control unit is pressed during playback, the time display appears but it soon returns to the original display.



- If the key is pressed during playback, normal playback in order of tracks resumes from the current track.

To quit the program mode



Press twice.
(at an interval of 2 sec. or more)

Remote control unit

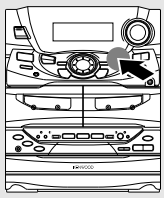
- If you are using the remote control unit, press the key once again while "CD PGM" is displayed.

Repeated playback

Desired titles or discs can be played back repeatedly.

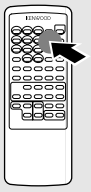
Select the "CD" input.

To repeat a disc



❶Confirm that the "PGM....." indicator is not lit.

If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)

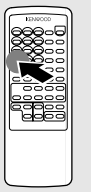


❷Press to select "DISC REPEAT".

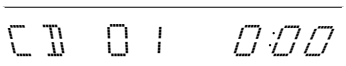
Press the key repeatedly to switch the display.

① REPEAT OFF
② REPEAT
③ DISC REPEAT
④ ALL REPEAT

⬅ Scrolled display (DISC REPEAT)



❸Select the disc.



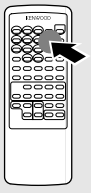
To stop repeated playback

Press the REPEAT key 3 times to select "REPEAT OFF".

To repeat all discs

❶Confirm that the "PGM....." indicator is not lit.

If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)

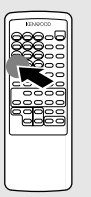


❷Press to select "ALL REPEAT".

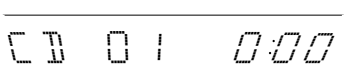
Press the key repeatedly to switch the display.

① REPEAT OFF
② REPEAT
③ DISC REPEAT
④ ALL REPEAT

⬅ Scrolled display (ALL REPEAT)



❸Select the disc to be played first.

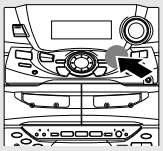


To stop repeated playback

Press the REPEAT key twice to select "REPEAT OFF".

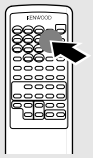
Select the "CD" input.

To repeat only one track



❶ **Confirm that the "PGM....." indicator is not lit.**

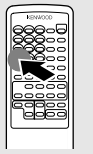
If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)



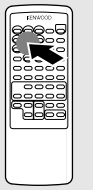
❷ **Select "REPEAT".**

Press the key repeatedly to switch the display.

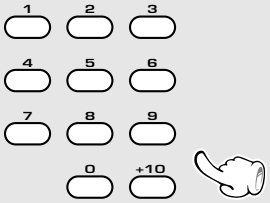
- ① **REPEAT OFF**
- ② **REPEAT**
- ③ **DISC REPEAT**
- ④ **ALL REPEAT**



❸ **Select the disc.**



❹ **Select the track.**

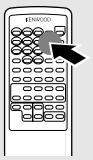


To stop repeated playback

Press the REPEAT key 4 times to select "REPEAT OFF".

To repeat only the programmed tracks

❶ **Perform the procedure in "Listening in the desired sequence (program playback)" till step ❹ to program the desired CD tracks.** → 32



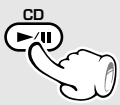
❷ **Select "PGM REPEAT".**

● All of the programmed tracks will be played repeatedly.

Press the key repeatedly to switch the display.

- ① **PGM REPEAT**
- ② **REPEAT OFF**

❸ **Start playback.**



To stop repeated playback

Press the REPEAT key twice to select "REPEAT OFF".

To quit the program mode

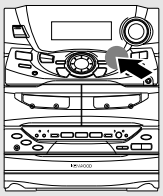
→ 33

Listening to an unexpected title sequence *(random playback)*

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

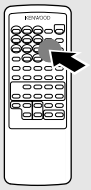
Select the "CD" input.

1 *Confirm that the "PGM....." indicator is not lit.*



If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)

2 *Select the RANDOM mode.*

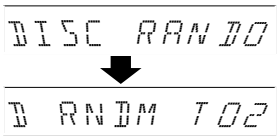


For "ONE DISC RANDOM" playback, select the disc in advance.

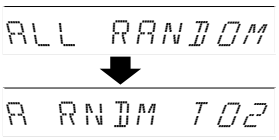
Press the key repeatedly to switch the display.

- ① **ONE DISC RANDOM.....Random play of one disc**
- ② **ALL RANDOM .....Random play of all discs**
- ③ **RANDOM OFF (Normal playback)**

Random play of one disc
⬅ Scrolled display
(ONE DISC RANDOM)

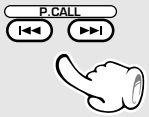


Random play of all discs
⬅ Scrolled display



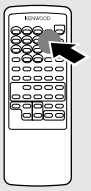
- Playback stops after each title has been played once.
- When the **TIME** key of the remote control unit is pressed during playback, the time display appears but it soon returns to the original display.

To select another track in the middle of playing one



- Pressing the ⏮ key once returns to the beginning of the track being played.

To repeat random playback



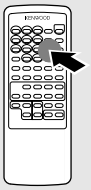
Select "RANDOM REPEAT".

Press the key repeatedly to switch the display.

- ① **REPEAT OFF**
- ② **RANDOM REPEAT**

To cancel random playback

Select "RANDOM OFF".



R.D.S. (Radio Data System) (For U.K., Europe and Russia)

RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

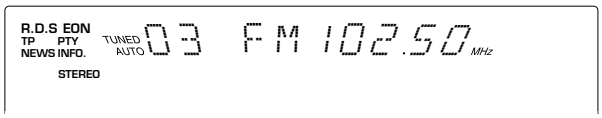
This unit is equipped with the following functions utilizing RDS data:

PTY (Program Type Identification) Search : →38
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

PS (Program Service Name) Display : (See below.)
When an RDS broadcast is received, the station name is automatically displayed.

EON (Enhanced Other Network) : →40
When the information to be received is set in advance and any RDS station in the same network starts broadcasting of such information, the reception automatically will be switched to that station.

The **"RDS"** indicator lights up when an RDS broadcast (signal) is received.



- Some functions may not be provided or be given different names depending on countries or areas.

Note before the use of RDS

To receive RDS stations, you have to preset RDS stations using the auto preset function. The auto preset function presets the RDS stations in priority. Flashing "NO DATA" will be displayed when no RDS station has been preset with this function.

Set the receiving band to FM and preset RDS stations with the auto preset function. →27

To switch the display contents

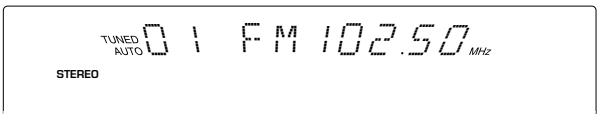
Pressing the RDS DISP. key changes the display contents.

Display mode priority ranking

When an RDS broadcast is received :

① **PS (Program Service Name) Display :**
When an RDS broadcast is received, the station name is automatically displayed.
If no PS data was sent, "NO PS" is displayed.

② **Frequency Display :**
The frequency of the current station is displayed.

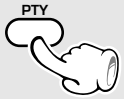


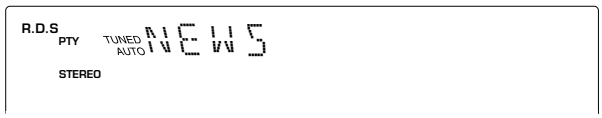
Searching for a desired program type *(PTY search)*

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.

Set the reception band to FM. Preset RDS stations with the auto preset function. →27

1 *Select the PTY search mode.*



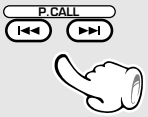


When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

2 *Select the desired program type.*

Use program type table on the right for your convenience.

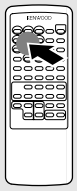
Ⓐ To select using the P.CALL (I◄◄ ►►I) keys

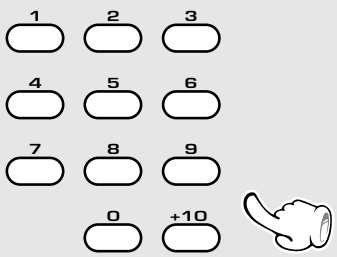


Select while "PTY" is lit.

The P.CALL (I◄◄ ►►I) keys can be used to select one of the 29 program types by displaying them in sequence.
Press and hold the key and release it when the desired program type appears.

Ⓑ To select using the numeric keys





The numeric keys can be used to specify the desired program type directly by selecting a number between 01 and 28.

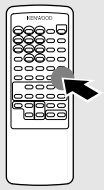
Example:
To select 23: Press [+10] [+10] [3].

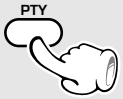
Program type table

Ⓐ I◄◄ ►►I keys	Ⓑ	Program Type Name	Display
	01	Pop Music	POP M
	02	Rock Music	ROCK M
	03	*M.O.R. Music	M.O.R. M
	04	Light Classical	LIGHT M
	05	Serious Classical	CLASSICS
	06	Other Music	OTHER M
	07	News	NEWS
	08	Current Affairs	AFFAIRS
I◄◄ DOWN	09	Information	INFO
	00	Sport	SPORT
	10	Education	EDUCATE
	11	Drama	DRAMA
	12	Culture	CULTURE
	13	Science	SCIENCE
	14	Varied	VARIED
	15	Weather	WEATHER
	16	Finance	FINANCE
	17	Children's programmes	CHILDREN
	18	Social affairs	SOCIAL A
UP ►►I	19	Religion	RELIGION
	20	Phone in	PHONE IN
	21	Travel	TRAVEL
	22	Leisure	LEISURE
	23	Jazz music	JAZZ
	24	Conutry music	COUNTRY
	25	National music	NATION M
	26	Oldies music	OLDIES
	27	Folk music	FOLK M
	28	Documentary	DOCUMENT

*M.O.R. Music (Middle of the Road Music)

3 Start the search.





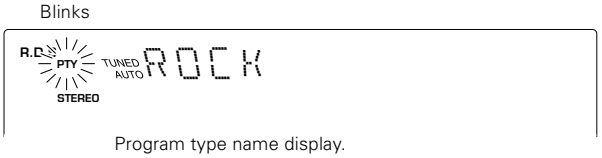
Press the key again during search to cancel it.

To change to a different program type :

Repeat steps 1, 2, 3.

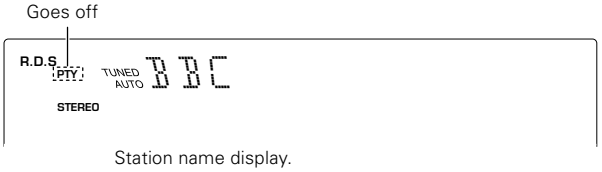
When searching for a Rock Music broadcast

Display while the tuner is searching.



Program type name display.

When a station is received.



Station name display.

- No sound is heard while **"PTY"** is blinking.
- If a program of the desired type cannot be found, **"NO PROG"** is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display changes temporarily to the frequency display, and then to the station name display.

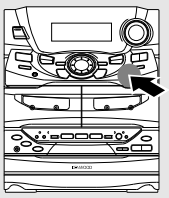
To be able to listen to the desired information at any time (EON)

By using the EON function, which manages the information of other stations, listening to desired information like traffic information or news etc. can be reserved even when it is not being transmitted at the present. When listening to a station with the "EON"display lit and another station of the same network starts to broadcast an information program for which a reservation has been made, then that station will be selected automatically. When the desired information program ends, return is made to the original program.

Set the reception band to FM.

→ 26

1 Auto preset the stations.



❶ Receive a broadcast.

❷ Keep the AUTO key pressed (2 sec or longer).

The EON data presently being broadcasted are taken in automatically.

This is not required when auto presetting has already been executed.

→ 27

- When all 40 stations have already been preset by the procedure for "One-by-one presetting", the EON function will not operate. Auto presetting must be used.

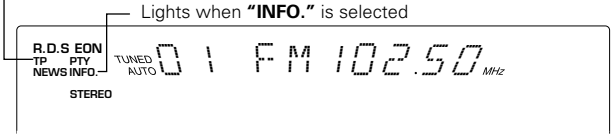
2 Select the desired information.

Each press switches the modes as follows.

- ① **TA ..... Traffic Announcement**
- ② **NEWS ..... News**
- ③ **INFO. ..... Information**
- ④ **Display not lit ..... EON cancelled**

Lights with a station broadcasting traffic announcement programs.

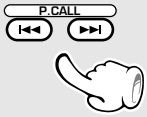
Lights when **"INFO."** is selected



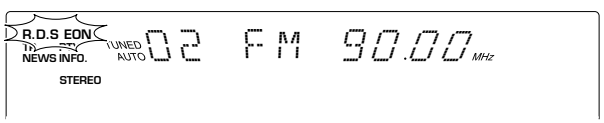
- Please execute automatic presetting when **TA, NEWS,** and **INFO.** can not be selected.

3 Receive an RDS station.

Select a station where "RDS" and "EON" are lit.



"RDS" and **"EON"** are lit



- When **"EON"** does not light although an RDS station is received, that station is not transmitting EON data. Please select a different station.
- If you want **TA** programs, select the stations with which the **"TP"** indicator lights.

4 Wait for the desired information.

CD or tape playback may also be started.
As long as the unit is ON, the unit is always ready for the reception.

- When one of the stations of the network of the station received in 3 starts broadcasting the program contents selected in 2, that station will be received automatically. At this time, tape playback will stop and CD playback will pause. However, external equipment (AUX) will remain as it is.
- When the power is OFF and during recording (including dubbing), the EON function does not operate.
- When the transmission of the selected program contents ends in case of automatic reception with the EON function, return will be made to the status directly before operation of the EON function. When tape or CD playback has been interrupted, it will be continued from the point of interruption.

Waiting for information while a RDS station without EON function is tuned

If the EON indicator does not light with the RDS station in steps 3 and 4, the tuner will wait for only the desired information broadcast from the tuned RDS station provided that the desired information has been selected in the previous step.

TP (Traffic Program) indicator

The lighting of the TP indicator indicates that the currently tuned station or a station in the same network as it broadcasts traffic announcement programs. If the TP indicator already lights with the current station, you can listen to the traffic announcement program through the station without making reservation with the EON function.

Selection of the convenient CD recording type

With this unit, the following edit recording is possible according to the purpose.

Note that this cassette deck cannot record onto Metal tapes.

If you want to select the track to be recorded while playing a CD

→

Recording only desired titles (CD ONE TRACK RECORD) → 43

Perform this operation when a track you want to record starts during CD playback. This starts recording of the track from the beginning.

If you want to record a CD in order of track numbers

→

Recording of an entire CD (CD RECORD) → 44

Perform the CD RECORD operation while the CD player is in stop mode to start recording.

If you want to avoid any tune being interrupted at the end of tape

→

Giving preference to the tape length over the title sequence (CD EDIT) → 45

Edit recording of CD is possible by the simple operation of entering the recording length of the tape.

If you want to record only the desired tracks

→

Recording the programmed titles (CD PGM RECORD) → 46

Program the desired tracks from up to 3 CD discs in the desired order and record the programmed playback onto tape.

Recording only desired titles *(CD ONE TRACK RECORD)*

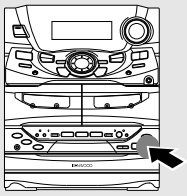
At the time of CD playback, any desired title can be selected immediately for recording.

When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded. → 48

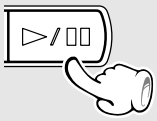
When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. → 28 ***(Steps 1 to 3)***

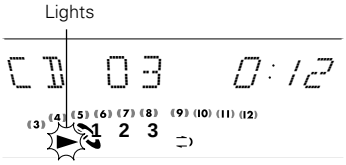
1 *Playback of CD.*



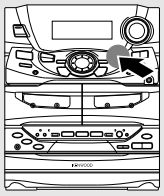
Select a mode other than random play.



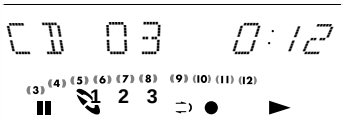
Lights



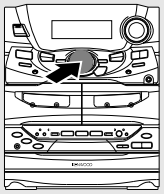
2 *Press the DUBBING key.*

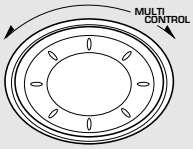


In case the key is pressed with track No.3

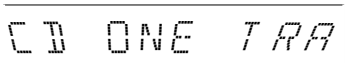


3 *Select "CD ONE TRACK RECORD".*



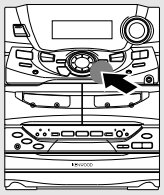


- **CD ONE TRACK RECORD**
- **CD RECORD**
- **CD EDIT**
- **CD PGM RECORD**



← Scrolled display
(CD ONE TRACK RECORD)

4 *Start recording.*



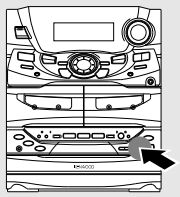
Press the ENTER key.

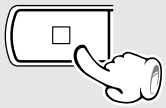
- Playback restarts from the beginning of the track being played and recording starts at the same time.

When recording has been completed, a non-recorded portion of 4 seconds will be produced and the cassette deck part will stop. The CD player will enter temporary stop condition.

To record a different track, repeat the steps 1 to 4.

To end recording in the middle





- Both the cassette deck and CD player stop.

Recording of an entire CD (CD RECORD)

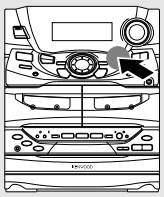
Perform the following operation while the CD player is in stop mode to start recording at the same time as the start of playback.

When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded. →48

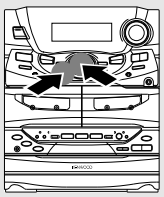
When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. →28 ***(Steps 1 to 3) (For the reverse mode, select " ⊃ " (two-way recording).)***

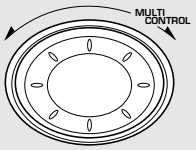
1 Press the DUBBING key.



2 Select "CD RECORD".

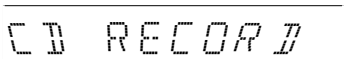


❶ Select. ❷ Press SET.

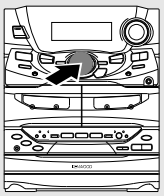


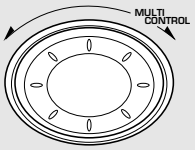
- **CD RECORD**
- **CD EDIT**
- **CD PGM RECORD**
- **TAPE DUBBING**

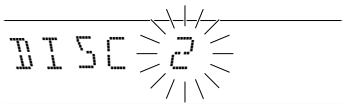
(Only when the selected input is TAPE and tapes are present in both decks A and B)



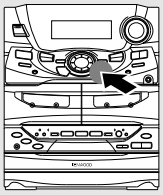
3 Select the disc.







4 Start recording.

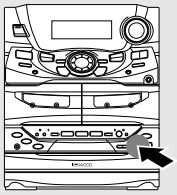


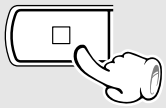
Press the ENTER Key.

- Recording of CD starts at the same time as playback.
- At the end of tape, the music is not recorded on the leader tape portion. If you do not want any music to be interrupted in the middle, refer to "Recording" and start recording of side B with the interrupted track.

→28

To end recording in the middle





- Both the cassette deck and CD player stop.

Giving preference to the tape length over the title sequence (CD EDIT)

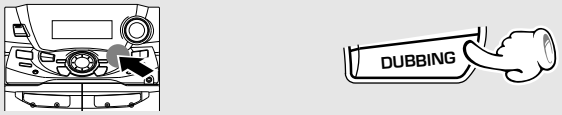
When the tape recording time is specified, recording is executed with changing the title sequence so that no title will be interrupted when the tape direction is changed at the end of one side.

When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded. → 48

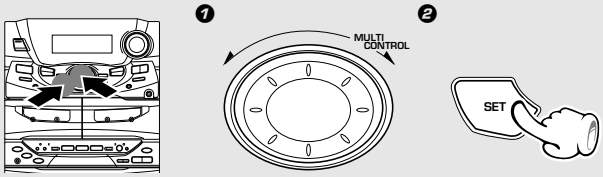
When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. → 28 ***(Steps 1 to 3) (For the reverse mode, select " ⊃ " (two-way recording).)***

1 Press the DUBBING key.



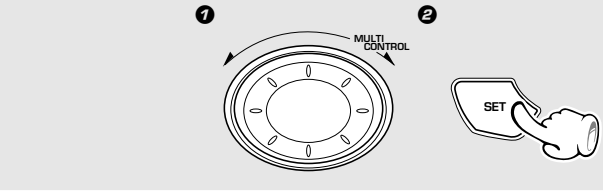
2 Select "CD EDIT" and press the SET key.

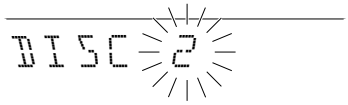


- **CD ONE TRACK RECORD (Only during CD playback)**
- **CD RECORD**
- **CD EDIT**
- **CD PGM RECORD**
- **TAPE DUBBING**

(Only when the selected input is TAPE and tapes are present in both decks A and B)

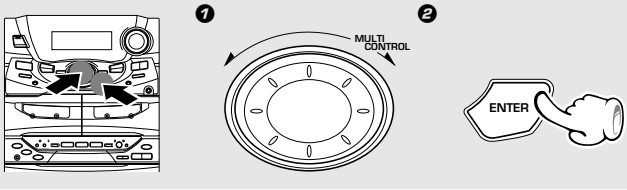
3 Select a disc and press the SET key.

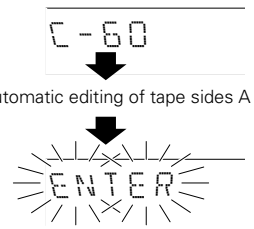




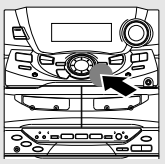
- Even if the disc has already been selected, select the disc again.

4 Set the tape length (recording time) and press the ENTER key.

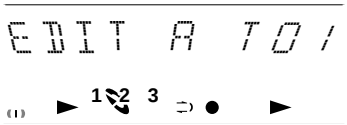




5 Start edit recording.



Press the ENTER Key.



- The tape and CD stop automatically when recording has completed.
- Press the stop (■) key to stop recording in the middle.

Press the CD PGM key twice to cancel CD EDIT.

- If you commit an error in the time entry, restart the procedure from step 1.

Note

Depending on the combination of conditions from CD contents (number of titles and length of the titles) and tape recording time, interruption of a title may not be avoidable. In such a case, the respective title will not be recorded.

Recording the programmed titles *(CD PGM RECORD)*

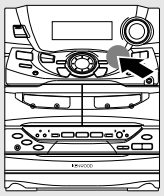
Program the desired tracks from up to 3 CD discs in the desired order and record the programmed playback onto tape.

When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded. → 48

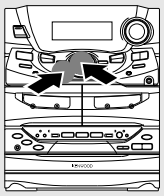
When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. → 28 ***(Steps 1 to 3)***

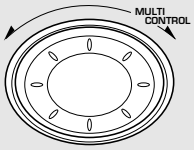
1 *Press the DUBBING key.*



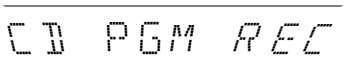
2 *Select "CD PGM RECORD".*



❶ Select. **❷ Press SET.**



- **CD ONE TRACK RECORD (Only during CD playback)**
- **CD RECORD**
- **CD EDIT**
- **CD PGM RECORD**
- **TAPE DUBBING**
  (Only when the selected input is TAPE and tapes are present in both decks A and B)



← Scrolled display (CD PGM RECORD)

3 *Program the desired tracks.*

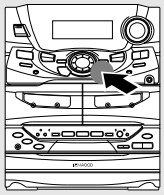
❶ Select tracks in the order you want to play them.

(Perform step 3 on page 32.)

❷ Check, replace, add or delete the programmed tracks as required.

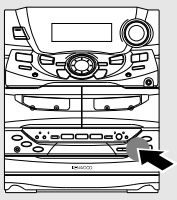
(Perform step 4 on page 33.)

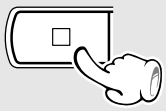
4 *Start recording.*



Press the ENTER Key.

To end recording in the middle





Effective Sound Adjustment

This unit permits selection of equalizer and sound field playback. Please select the equalizer as desired according to the music genre. Select the sound field mode according to the desired atmosphere.

Adjustment of balance and input level

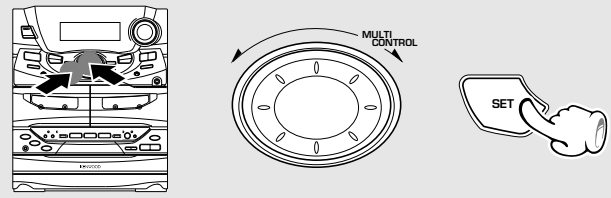
Balance..... Adjusts the balance of left and right volume.
Input level.....Adjusts the volume of external equipment (video deck etc.) connected to the AUX terminal. Please adjust as required when the volume from external equipment is too high etc.

Balance adjustment :

1 *Press the MODE/DEMO key.*

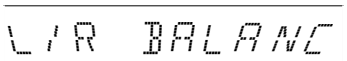
2 *Select "L/R BALANCE".*

❶ Select. **❷ Press SET.**



SRS LEVEL
S.W. (Except for the XD-A700)
L/R BALANCE

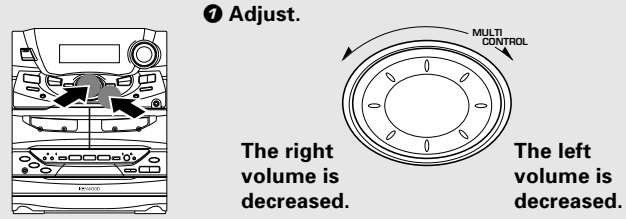
← Scrolled display (L/R BALANCE)



- When SRS 3D is ON, "SRS LEVEL" (strength of the 3D effect) also is displayed.

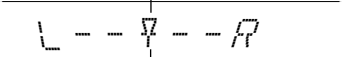
3 *Adjust.*

❶ Adjust.



The right volume is decreased. **The left volume is decreased.**

Indicates the center

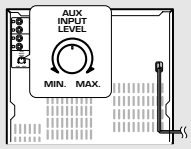


Indicates the balance setting

❷ Press the ENTER key.

Input level adjustment :

Rear panel



The level is decreased. **The level is increased.**

Adjusts the volume of external equipment (video deck etc.) connected to the AUX terminal. Please adjust as required when the volume from external equipment is too high etc.

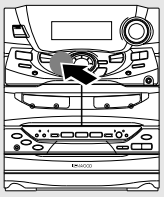
- Sound is not output at the MIN. position.

Listening with the desired sound (equalizer function)

In addition to the 4 kinds of equalizer patterns which have been preset at the factory, 3 equalizer patterns created manually by the user can be stored in memory and recalled any time.
A SOURCE DIRECT mode is provided for pure audio reproduction by defeating the EX.BASS and SRS 3D circuits.

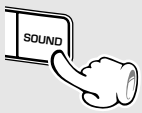
Selecting an equalizer pattern

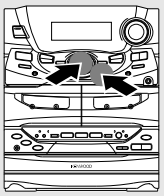
It is possible to select the desired equalizer pattern according to the category of the played music. The graphic equalizer effect can be recorded together with the sound.



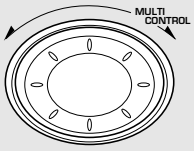
❶ Play desired music.

❷ Switch on the equalizer mode.





❸ Select the desired equalizer pattern.



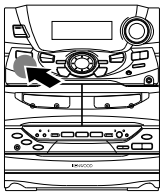
❹ Press the ENTER key.

Equalizer patterns which can be recalled

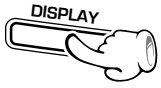
- **ROCK ..... Rock music**
- **POP ..... Pop music**
- **CLASSIC ..... Classic music**
- **JAZZ ..... Jazz music**
- **MANUAL EQ1**
- **MANUAL EQ2**
- **MANUAL EQ3**
- **EQ. OFF ..... Cancelled.**
- **SOURCE DIRECT ..... For pure audio reproduction by defeating the EX.BASS and SRS 3D circuits.**

- On the remote control unit, each press of the **EQ. ON/OFF** key switches the on/off of equalizer patterns.
- To cancel the equalizer effect, select **"EQ.OFF"** or press the **EQ. ON/OFF** key of the remote control unit.

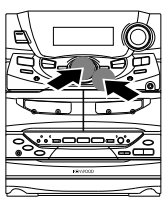
Switching the spectrum analyzer display mode

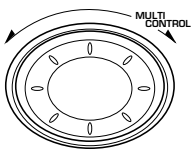


❶ Press the DISPLAY key.



❷ Select the DISPLAY mode.



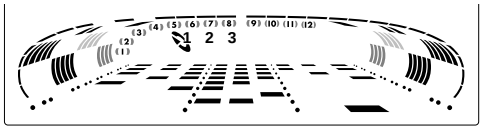


- **DISPLAY AUTO**
- **DISPLAY 1**
- **DISPLAY 2**
- **(Normal display)**
- **DISPLAY 3**

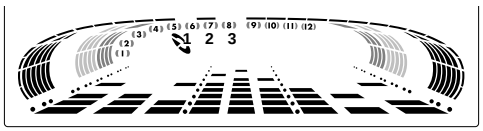
❸ Press the ENTER key.

Example of reference mode display

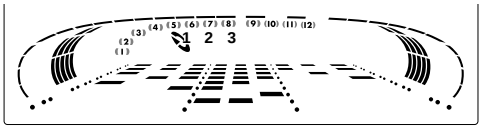
1



2



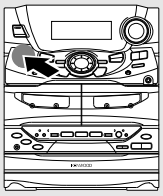
3



- When DISPLAY AUTO is selected, the display mode is switched in sequence from 1 to 3 every time a track changes during CD playback.

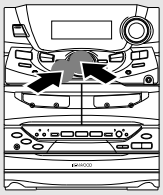
Creation and memorizing of an equalizer pattern

You can edit desired patterns manually and store them in memory.

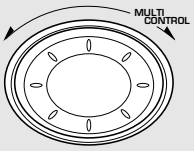


❶ Switch on the equalizer mode.

❷ Select the number to be used for storage.
(MANUAL EQ1 ~ EQ3)



1. Select. **2. Press SET.**

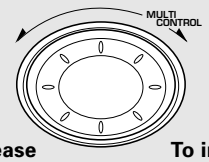


- **ROCK**
- **POP**
- **CLASSIC**
- **JAZZ**
- **MANUAL EQ1**
- **MANUAL EQ2**
- **MANUAL EQ3**
- **EQ. OFF**
- **SOURCE DIRECT**

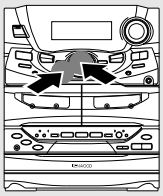
Go to step ❸ within 15 sec.

❸ Adjust the equalizer pattern.

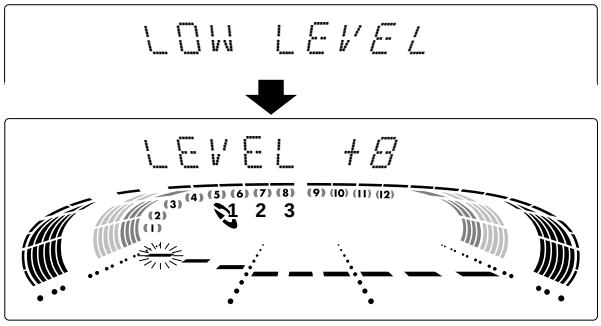
1. Adjust the level.



To decrease the level **To increase the level**



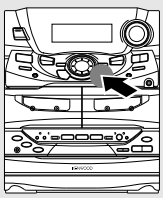
2. Press the SET key.

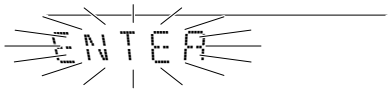


The LOW, MID and HIGH frequency bands can be adjusted independently by repeating step ❸ for each of them.

- Each frequency band can be adjusted in the range between -8 and +8.

❹ Store the pattern in memory.



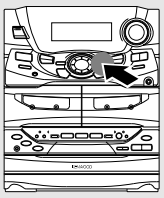


- Wait until "LEVEL ??" or "ENTER" is displayed before pressing the key. (?? = -8 to +8)

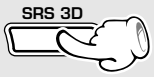
Enjoying Sound Field Effects

Experiencing SRS 3D (Sound Retrieval System)

The Sound Retrieval System is an epochal system which produces a three-dimensional sound space by applying the most suitable processing to the sound signal on the basis of the human listening mechanism. This permits real depth and sound location, considered as difficult to realize with conventional 2-channel stereo (general stereo). A sufficient effect can be obtained for any source (CD, tape, broadcasts, etc.). Recording with applied SRS 3D also is possible.

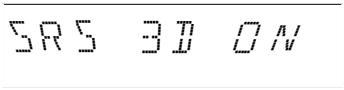


❶ Set SRS 3D to ON.



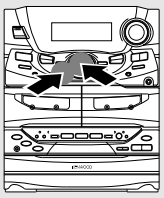
Each press of the key switches SRS 3D on and off alternately.

← Scrolled display (SRS 3D ON)

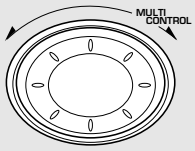


❷ Press the MODE/DEMO key.

❸ Select "SRS LEVEL".



1. Select.



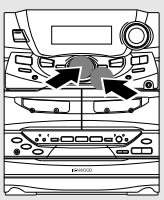
SRS LEVEL
S.W. (Except for the XD-A700)
L/R BALANCE

2. Press SET.

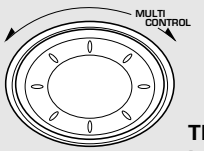
● SRS 3D ON/OFF switching is not possible during recording.

Level display

❹ Adjust the effect strength (level).



1. Adjust.

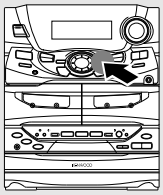


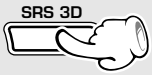
The level decreases. **The level increases.**

● Adjustment is possible in the range from -8 to +8.
● Please set as desired according to the titles being played back etc.

2. Press ENTER.

To cancel SRS 3D





DOLBY PRO LOGIC surround adjustment

When video (LD) software carrying DOLBY SURROUND mark is played, this mode provides the Dolby Surround effect, similar to movie theaters.

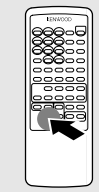
Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Delay time

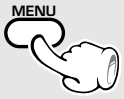
This refers to the difference in timing of the sound output from the surround speakers with respect to that output from the front speakers. The delay time setting consists of adjusting this difference in time.

1 Set the DOLBY PRO LOGIC mode.

Setting using the remote control unit:



❶ Press the MENU key.

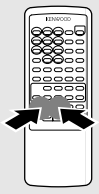


If you are operating the main unit, press the LISTEN MODE key then select by turning the MULTI CONTROL jog dial in place of pressing the "◁ ▷" key of the remote control unit.

- Be sure to adjust from your listening position.
- When the number of displayed characters exceeds 10, the characters are first scrolled then stop.
- To abort setting in the middle, press the **MENU** key again.

← Scrolled display (SELECT MODE)

SELECT MOD



❷ Select the LISTEN MODE.

① ◁ ▷ ② SET

(Go to next step within 15 sec.)

- **CD PGM (Displayed only when the CD input is selected)**
- **DUBBING (Displayed only when a tape is in deck B)**
- **SOUND**
- **DISPLAY**
- **TIMER**
- **LISTEN MODE (Scrolls then stops.)**
- **MODE**

❸ Select the DOLBY PRO LOGIC mode.

① ◁ ▷ ② SET

(Go to next step within 15 sec.)

- **DOLBY PRO LOGIC**
- **DOLBY 3 STEREO**
- **STEREO**
- **DSP**

← Scrolled display (DOLBY PRO LOGIC)

DOLBY PRO

❹ Select the center speaker mode.

① ◁ ▷ ② SET

(Go to next step within 15 sec.)

- **NORMAL ..... When the center speaker is compact-sized speaker.**
- **WIDEBAND ..... When the center speaker is medium- or large-sized speaker.**
- **PHANTOM ..... When the center speaker is not used.**
- RETURN ..... **Returns to step ❸.**

- If you cannot tell whether your center speaker is compact or medium-size, try two modes and select according to your liking.

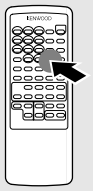
❺ Select the delay time.

① ◁ ▷ ② ENTER

- **15 mS ..... When the listening position is closer to the front speakers**
- **20 mS ..... When the listening position is located between the front and surround speakers**
- **30 mS ..... When the listening position is closer to the surround speakers**
- RETURN ... **Returns to step ❹.**

- To abort setting in the middle, press the **LISTEN MODE** key again.
- When the setting completes, all of the set contents are displayed by scrolling.

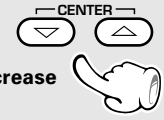
2 *Adjust the volume balance.*



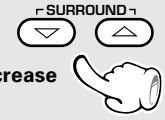
❶ Generate the test tone.

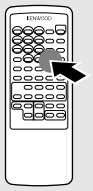
❷ Align the speaker volume with the main speaker volume.

Center speaker volume — **To increase** / **To decrease**



Surround speaker volume — **To increase** / **To decrease**





❸ Stop the test tone.

- The test tone which is heard like noise moves between speakers at an interval of 1.5 sec.
- The speaker volumes are to be adjusted while listening to the test tone.

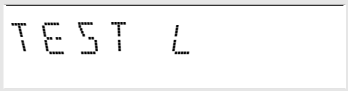
The display and test tone output speaker are switched automatically.

In NORMAL and WIDE BAND mode:

① TEST L (Left)
② TEST C (Center)
③ TEST R (Right)
④ TEST S (Surround)

In PHANTOM mode:

① TEST L (Left)
② TEST R (Right)
③ TEST S (Surround)



- Be sure to adjust from your listening position.
- The volume level can be adjusted in steps of 1 dB.
- The volume levels can be adjusted in the range from -10 dB to +10 dB.
- The center level value is memorized as a common setting with DOLBY 3 STEREO.

DOLBY PRO LOGIC surround playback

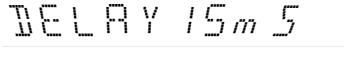
Before playing a video (or LD) software program carrying the DOLBY SURROUND mark, be sure to complete the "DOLBY PRO LOGIC surround adjustment". → 51

1 *Activate the DOLBY PRO LOGIC mode.*

← Scrolled display (DOLBY PRO LOGIC)

(Center mode display)

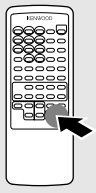
(Delay time display)

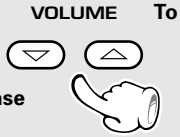


- After several seconds, return is made to the original display.

2 *Play a video software program.*

3 *Adjust the volume.*





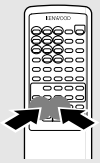
To cancel DOLBY PRO LOGIC surround play

DOLBY 3 STEREO adjustment

This mode improves the positioning of the acoustic image of words, etc., by applying directivity enhancer processing and using an additional center speaker when a video software program recorded with ordinary 2-channel stereo is played.

1 Activate the DOLBY 3 STEREO mode.

❶Perform the same operations as step ❶ and ❷ of the procedure for "Setting using the remote control unit" of "DOLBY PRO LOGIC surround adjustment". →51



❷Select the DOLBY 3 STEREO mode.

(Go to next step within 15 sec.)

❸Select the center speaker mode.

If you are operating the main unit, press the LISTEN MODE key then select by turning the MULTI CONTROL jog dial in place of pressing the "◁▷" key of the remote control unit.

← Scrolled display (DOLBY 3 STEREO)

The center mode display scrolls.

- **DOLBY PRO LOGIC**
- **DOLBY 3 STEREO**
- **STEREO**
- **DSP**

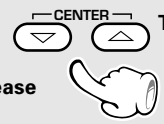
- **NORMAL .....When the center speaker is compact-sized speaker.**
- **WIDEBAND .....When the center speaker is medium- or large-sized speaker.**
- RETURN .....**Returns to step ❷.**

- If you cannot tell whether your center speaker is compact or medium-sized, try two modes and select according to your liking.

2 Adjust the volume balance.

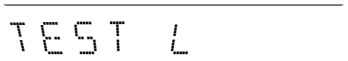
❶Generate the test tone.

❷Adjust the center speaker volume with the main speaker volume.



❸Stop the test tone.

- Be sure to adjust from your listening position.
- The speaker volumes are to be adjusted while listening to the test tone.
- The test tone which is heard like noise moves between speakers at an interval of 1.5 sec.



The display and test tone output speaker are switched automatically.

- **TEST L (Left)**
- **TEST C (Center)**
- **TEST R (Right)**

Center level display

- The center level can be adjusted in steps of 1 dB.
- The volume levels can be adjusted in the range from -10 dB to +10 dB.
- The center level value is memorized as a common setting with DOLBY PRO LOGIC surround.

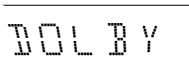
DOLBY 3 STEREO play

Before playing a video (or LD) software program carrying the DOLBY SURROUND mark, be sure to complete the "DOLBY 3 STEREO adjustment".

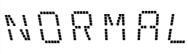
1 Activate the DOLBY 3 STEREO mode.

Press the DOLBY 3 STEREO key of the remote control unit.

← Scrolled display (DOLBY 3 STEREO)



← Scrolled display (Center mode display)



2 Play a video software program.

3 Adjust the volume.

Use the VOLUME keys of the remote control unit.

To cancel DOLBY 3 STEREO play

Press the STEREO key of the remote control unit.

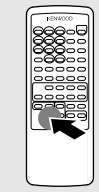
DSP (Digital Signal Processor) playback

The DSP mode uses the digital processing capability of the DSP to create the reverberation components (factors of sound reflections in a variety of spaces), that determine the feeling of presence, without altering the quality of the music source.

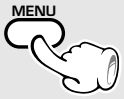
DSP mode

The DSP mode creates the ambiance of a hall, disco or live house from any kind of program source. This mode is particularly effective when listening to a stereo program source such as a CD, TV and FM broadcasting. Although the DSP mode can create a simulated stereo surround effect from a monaural source, the proper effect may not be obtained depending on the played software.

Set the DSP mode

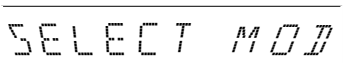


❶ Press the MENU key.

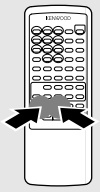


If you are operating the main unit, press the LISTEN MODE key then select by turning the MULTI CONTROL jog dial in place of pressing the "◁ ▷" key of the remote control unit.

← Scrolled display (SELECT MODE)



- To cancel the listening mode, press the **MENU** key again.
- When the number of displayed characters exceeds 10, the characters are first scrolled then stop.

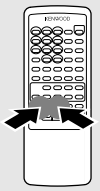


❷ Select the LISTEN MODE.

① ◁ ▷ ② SET

(Go to next step within 15 sec.)

- **CD PGM (Displayed only when the CD input is selected)**
- **DUBBING (Displayed only when a tape is in deck B)**
- **SOUND**
- **DISPLAY**
- **TIMER**
- **LISTEN MODE (Scrolls then stops.)**
- **MODE**



❸ Select the DSP.

① ◁ ▷ ② SET

(Go to next step within 15 sec.)

- **DOLBY PRO LOGIC**
- **DOLBY 3 STEREO**
- **STEREO**
- **DSP**

Selected mode is displayed.

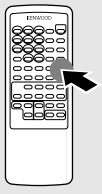
❹ Select any of the DSP.

① ◁ ▷ ② ENTER

- **DISCO**
- **HALL**
- **LIVE**
- RETURN ..... **Returns to ❸ of ❶.**

Selected mode is displayed.

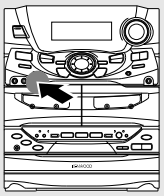
To cancel DSP play



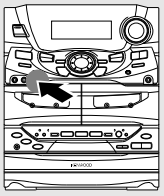
Enjoying Karaoke *(Except for some areas)*

When CDs or tapes with recorded voice and instrument music are played, it is possible to lower the volume only for the voice part. You can sing along to the recorded accompaniment as a simplified karaoke operation by connecting a microphone.

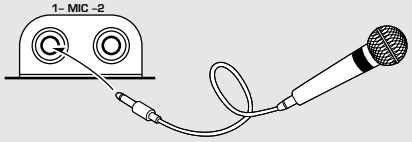
1 *Connect a microphone.*

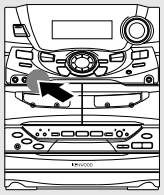


❶ Turn the MIC VOL. control fully counterclockwise.



❷ Plug the microphone into one of the MIC jacks.





❸ Adjust the volume balance between the music input and microphone input.

To decrease microphone volume — **To increase microphone volume**

2 *Play the music.*

3 *Sing along with the accompaniment.*

After the above steps, you can record your karaoke singing onto a tape. However, note that the karaoke singing using a tape cannot be recorded onto a tape.

- Set the **MIC VOL.** control knob to the fully counterclockwise position when the microphone is not used.

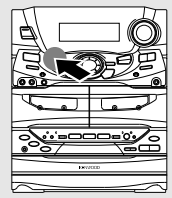
- The microphone audio cannot be reproduced while the DPSS function of the cassette deck is in use. → 25

Clock adjustment

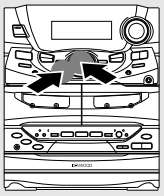
Adjust the clock before setting the timer.

This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function.
The time is displayed only while the power is off.

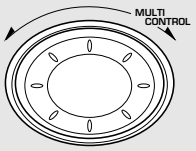
1 Activate the clock adjustment mode.



2 Select "TIME SET".

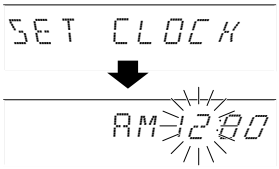


❶



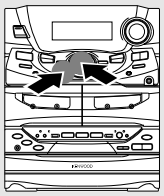
❷ **Press the SET key.**

- **SLEEP**
- **TIME SET**
- **O.T.T.**
- **PROG. ON/OFF**
- **PROG. 1**
- **PROG. 2**
- **AUTO POWER SAVE**

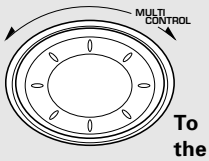


- The time display starts to blink.

3 Enter the figure of hour.



❶



To decrease the figure — **To increase the figure**

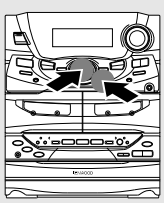
❷ **Press the SET key.**

Example: Adjustment to 8:45

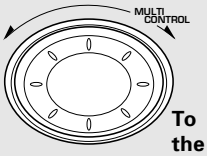
AM12↔AM1↔AM2...PM1↔PM2...↔RETURN**↔AM12...**

- The time of the day is represented in 12-hour AM/PM method.
- Press the **SET** key. The hour is entered and the minute display starts to blink.

4 Enter the figure of minute.

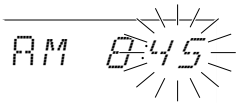


❶



To decrease the figure — **To increase the figure**

❷ **Press the ENTER key.**



00↔01↔02...59↔RETURN**↔00↔01...**

- If you made a mistake, select "RETURN" and press the **ENTER** key and restart the entry.
- To adjust correct time, press the **ENTER** key at the same moment as a time announcement.
- The "- - : - -" display appears after a power failure or when the power cord has been unplugged from the AC outlet and plugged again. In such a case, adjust the clock again.

Timer operation

Sleep timer (SLEEP)
The power is turned OFF automatically after the specified period has elapsed.

Operate easy To use Timer (O.T.T.)
Playback of the selected input source starts at the specified time, and the power is switched off after one hour. This timer operates only once directly after setting.

Timer playback, timer recording (PROG.1, PROG.2)
With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

AI timer playback (PROG.1, PROG.2)
When timer playback starts, the volume increases gradually.

AUTO POWER SAVE
When the power is ON and neither recording nor playback is executed for 30 minutes or more, the power is switched off automatically by this function.

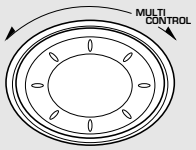
Adjust the clock before setting the timer. →56

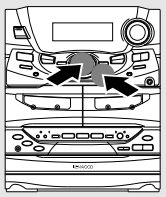
Sleep timer (SLEEP)

Set the number of minutes after which the power is to be turned OFF.

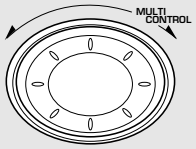
❶Press the TIMER key.

❷Select "SLEEP" and press the SET key.

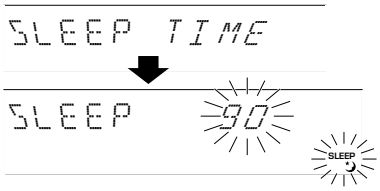




❸Set the time and press the ENTER key.



SLEEP
TIME SET
O.T.T.
PROG. ON/OFF
PROG. 1
PROG. 2
AUTO POWER SAVE



10↔20↔30...80↔90↔RETURN**↔SLEEP OFF↔10↔20...**

- The displayed time changes in 10-minute steps. The maximum time that can be set is 90 minutes.
- The power is turned OFF automatically after the set time has elapsed.
- The sleep timer does not operate until O.T.T. operation or program timer operation has ended.

To cancel

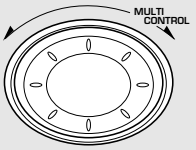
Turn the unit off or select "SLEEP OFF" and press the ENTER key.

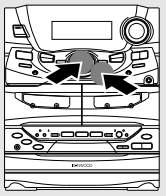
Operate easy To use Timer (Operate easy To use Timer : O.T.T.)

Timer playback can be set with a simple operation of just setting the time. With this function, the last source selected before turning power off can be played by the timer. The power turned ON by the timer is switched off automatically in an hour after the timer playback starts.

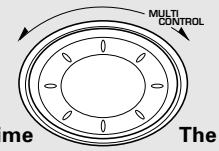
❶Select the desired source and adjust the volume.
❷Press the TIMER key.

❸Select "O.T.T." and press the SET key.





❹Set the ON time and press the ENTER key.

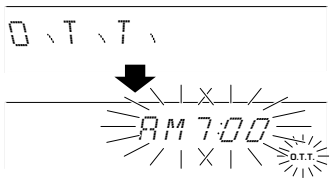


The time is returned. **The time is advanced.**

❺Switch OFF the power supply.

The program timer does not operate until O.T.T. operation has ended.
At the time of tape playback by timer operation, the B deck has priority.

SLEEP
TIME SET
O.T.T.
PROG. ON/OFF
PROG. 1
PROG. 2
AUTO POWER SAVE



- The ON time can be set in steps of 5 minutes.

To cancel

If you are in the middle of time setting, press the TIMER key.
If the O.T.T. operation has already been started, turn the unit off.

Timer programming

Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) are available.
In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.

- Timer reservation is possible for the two types PROG.1 and PROG. 2 at the same time.
- Please make reservations with an interval of at least one minute, so that the operation times of PROG. 1 and PROG. 2 do not overlap.
- If you made a mistake during timer setting:
  Select "RETURN" in the time setting or selection item and press the **SET** or **ENTER** key. (This makes it possible to the previous step so the current step can be restarted.)

Adjust the clock before setting the timer. → 56

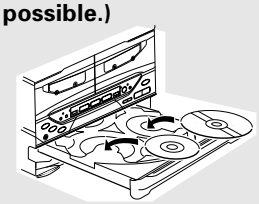
1 Make preparations for the play (recording).

- To listen to radio

The station should be preset prior to the above. → 27

- To listen to CD

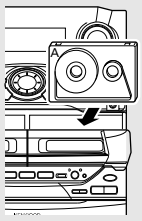
Insert a disc. (Program playback is not possible.)



Select the disc to be played (1, 2 or 3).

- To listen to tape

Set a tape into deck B.



The B deck has priority at the time of timer playback.

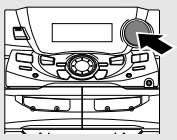
- Playing the auxiliary input source

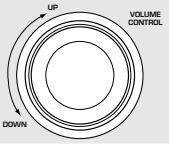
Make timer setting of the component connected to the AUX jacks.

- For recording

Make preparations for recording. → 28

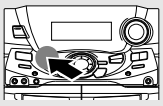
2 Adjust the listening volume.



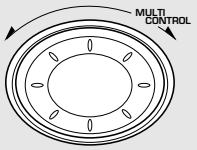


- When the timer function is used for timer recording of an input source, the speakers do not output the audio even after the unit is turned on by the timer.

3 Press the TIMER key.



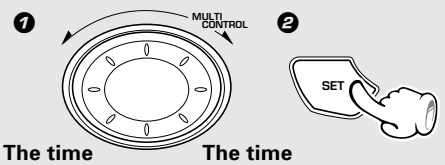
4 Select a program No. and press the SET key.



→ **SLEEP**
TIME SET
O.T.T.
PROG. ON/OFF
PROG.1 ..... Program 1
PROG.2 ..... Program 2
→ **AUTO POWER SAVE**

- The selected program No. lights.
- If a program No. under which a timer program has already been reserved, it is replaced by the new timer program.

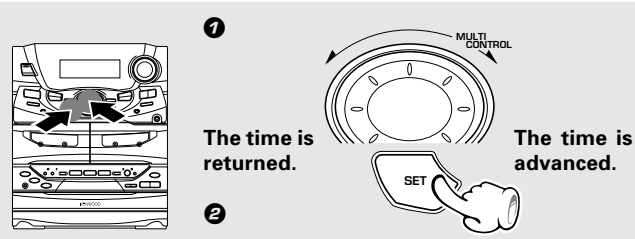
5 Enter the ON time.



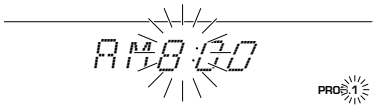
The time is returned. **The time is advanced.**

- After entering the figure of "hour" with the procedure in ❶ and ❷, enter the figure of "minute" using the same procedure.

6 Enter the OFF time.



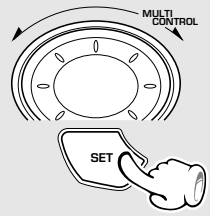
●After entering the figure of "hour" with the procedure in ❶ and ❷, enter the figure of "minute" using the same procedure.



7 Make the desired reservation.

For timer playback or AI timer playback

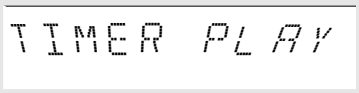
❶Select the mode.



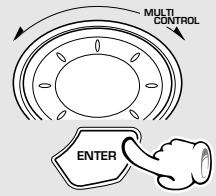
Select "TIMER PLAY" or "AI PLAY".

- **TIMER PLAY** — **Timer play**
- **TIMER REC**
- **AI PLAY** — **Timer play with gradually increasing volume**
- RETURN

Enter it.



❷Select the input source.



Select the source to be played.

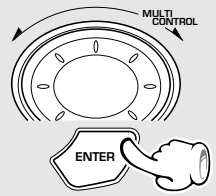
- **TUNER (Radio)**
- **CD**
- **TAPE**
- **AUX (External input)**
- RETURN

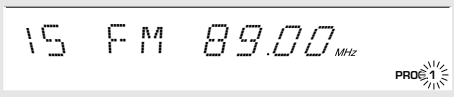
Enter it.

●If you selected TUNER, press the **SET** key.

❸Select the broadcast station (only when TUNER is selected above).

Select the preset station No.

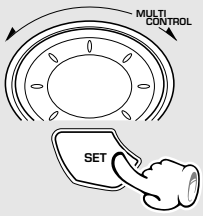




Enter it.

For timer recording

❶Select the mode.

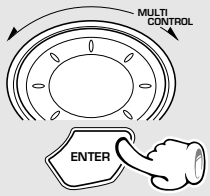


Select "TIMER REC".

- **TIMER PLAY**
- **TIMER REC**
- **AI PLAY**
- RETURN

Enter it.

❷Select the input source.



Select the recorded input source.

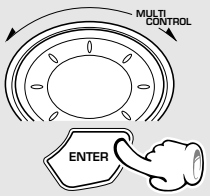
- **TUNER (Radio)**
- **AUX (External input)**
- RETURN

Enter it.

●If you selected TUNER, press the **SET** key.

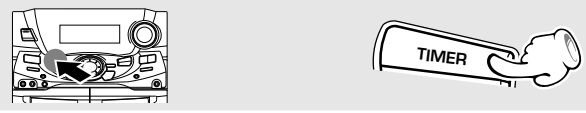
❸Select the broadcast station (only when TUNER is selected above).

Select the preset station No.

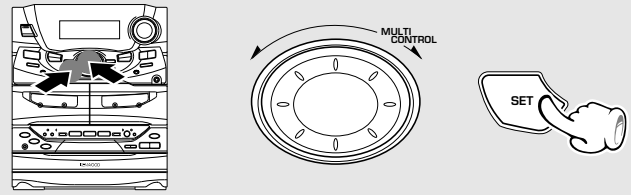


Enter it.

8 Press the TIMER key.

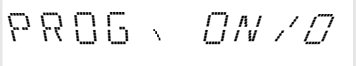


9 Select "PROG. ON/OFF" and press the SET key.



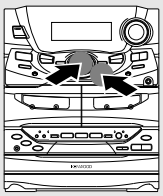
- **SLEEP**
- **TIME SET**
- **O.T.T.**
- **PROG. ON/OFF**
- **PROG.1**
- **PROG.2**
- **AUTO POWER SAVE**

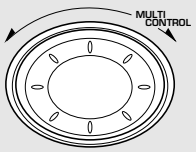
← Scrolled display (PROG. ON/OFF)



Continued on next page...

10 Select the program number to be used and press the ENTER key.

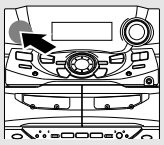




- **PROG.1 ..... Program 1 operates.**
- **PROG.2 ..... Program 2 operates.**
- **PROG.1 / 2 .... Programs 1 and 2 operate.**
- **PROG. OFF .... Timer off.**

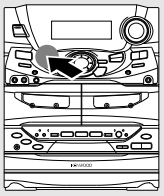
● The selected contents of the timer programming will be displayed in sequence.
(ON TIME → OFF TIME → Mode → Input source → Preset channel)

11 Set the POWER switch to OFF (STANDBY) position.



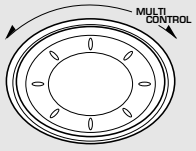
Note: The reservation contents cannot be cleared. The contents are cleared only when they are changed.

When timer operation is not required



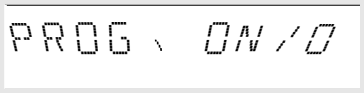
❶ **Press the TIMER key.**

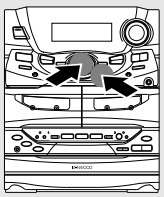
❷ **Select "PROG. ON/OFF" and press the SET key.**



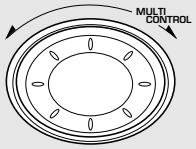
- **SLEEP**
- **TIME SET**
- **O.T.T.**
- **PROG. ON/OFF**
- **PROG. 1**
- **PROG. 2**
- **AUTO POWER SAVE**

← Scrolled display (PROG. ON/OFF)





❸ **Select "PROG. OFF" and press the ENTER key.**



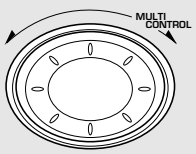
- **PROG.1**
- **PROG.2**
- **PROG.1 / 2**
- **PROG. OFF**

● The reservation contents are held in memory.

To set the same timer program again

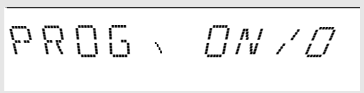
❶ **Press the TIMER key.**

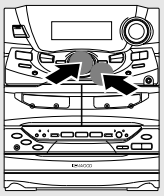
❷ **Select "PROG. ON/OFF" and press the SET key.**



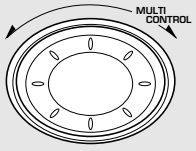
- **SLEEP**
- **TIME SET**
- **O.T.T.**
- **PROG. ON/OFF**
- **PROG. 1**
- **PROG. 2**
- **AUTO POWER SAVE**

← Scrolled display (PROG. ON/OFF)





❸ **Select the program to be set and press the ENTER key.**

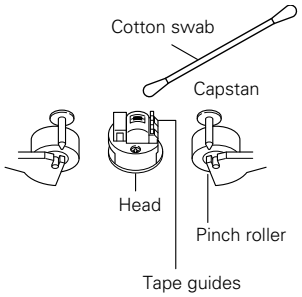


- **PROG.1 ..... Program 1 operates.**
- **PROG.2 ..... Program 2 operates.**
- **PROG.1 / 2 .... Programs 1 and 2 operate.**
- **PROG. OFF .... No program operates.**

● Also prepare the disc or tape and adjust the listening volume.

Maintenance

Cleaning the head section



Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

1. Open the cassette holder.
2. Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note

There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

Maintenance of the set

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

In regardto contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

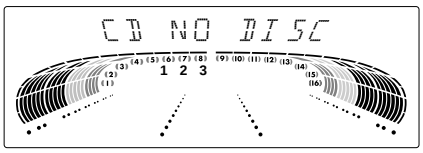
Reference

Sound Retrieval System manufactured under licence from SRS Labs, Inc. "SOUND RETRIEVAL SYSTEM" and the SRS Symbol SRS are trademarks of SRS Labs, Inc.
Purchase of this product does not convey the right to sell recordings mode with the SOUND RETRIEVAL SYSTEM.

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. **Turn the power ON but do not load a disc.**
2. **Press the ►/II key.**
3. **Wait a few seconds, and ensure that the display is as shown below.**



4. **Wait for a few seconds then turn power off.**

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the poeration after the condensation has dride up.

Be specially cautious against condensatin in a following circumsatance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet	Clock display
Stored contents which are cleared in at least a day after power plug is unplugged from power outlet	**Amplifier** POWER status (ON or OFF) Input selection Volume control value Balance level Equalizer's manual memory created by the user SRS 3D level **Tuner unit** Receiving band Frequency Preset stations Program timer setting contents **Cassette deck unit** Transport direction DOLBY NR Reverse mode

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

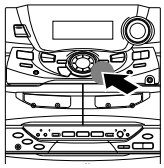
What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the eject ENTER key depressed, plug the power cord again.



Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	● Batteries are exhausted. ● The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between. ● There is no tape or CD set in the component to be played. ● An attempt is made to play the cassette deck which is recording something. ● The MULTI CONTROL setting mode is activated.	● Replace with new batteries. → 16 ● Operate the unit inside the remote controllable range. → 16 ● Set a tape or CD in the component to be played. ● Wait until the recording ends. ● Cancel the MULTI CONTROL setting mode. → 17

Receiver, speakers

Symptom	Cause	Remedy
Sound is not produced.	● The speaker cords are disconnected. ● The **MUTE** switch of remote control unit is switched ON. ● The headphone plug is inserted into the jack.	● Connect properly referring to "System connection". ● Switch MUTE OFF. ● Unplug the headphone plug. → 18
AUX (external input) sound is not produced.	● The AUX INPUT LEVEL control on the rear panel is set to MIN.	● Adjust to an optimum level. → 47
Sub-woofer sound is not produced.	● The LEVEL control is set to OFF.	● Adjust to an optimum level. → 19
Sound is not output in the TUNER mode.	● Even when DEMO is ON, stations with weak radio waves are muted and their sound cannot be heard.	● Switch the demonstration off. → 4
The character display blinks and sound is not produced.	● The speaker cords are short-circuited.	● Turn the power OFF, remove the short-circuit and turn the power ON again.
Sound is not produced from the left or right speakers.	● The speaker cords are disconnected.	● Connect properly referring to "System connection".
Sound is not produced from the surround speakers.	● No surround mode is activated.	● Set a surround mode.
The clock display shows "- - : - -".	● There was a power failure. ● The power cord was unplugged from the outlet.	● Adjust the present time again. → 56 ● Adjust the present time again. → 56
Timer operation is not possible.	● The present time has not been adjusted or there was a power failure. ● The timer ON time and OFF time have not been set. ● The timer execution was not set up.	● Adjust the present time referring to "Clock adjustment". → 56 ● Set the timer ON time and OFF time. → 58 ● Execute the timer program. → 60
Radio stations cannot be received.	● The antennas have not been connected. ● A proper broadcasting band has not been selected. ● The frequency of the station to be received is not tuned.	● Connect antennas. ● Select a band. → 26 ● Tune to the frequency of the desired station. → 26
Noise interferes.	● Car ignition noise. ● Influence of an electric appliance. ● A TV set is installed near the system.	● Install the outdoor antenna in an apart position from the road. ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.

A station has been preset but it cannot be received by pressing the P.CALL key.	● The frequency of the preset station is not tunable. ● The preset memory has been cleared because the power cord has been unplugged for a long period.	● Preset stations with tunable frequencies. → 27 ● Preset stations again. → 27
Demonstration starts suddenly.	● The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	● This is not malfunction. Press the **MODE/ DEMO** key to cancel the demontration. → 4

General

Symptom	Cause	Remedy
No operation occurs when an operation key is pressed.	● The MULTI CONTROL setting mode is activated.	● Cancel the MULTI CONTROL setting mode. → 17

Cassette deck

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key.	● The head is dirty. ● The tape is wound too tight due to irregular winding. ● A nonrecorded tape is played.	● Clean the head referring to "Maintenance". → 61 ● Try another tape. ● Play a recorded tape.
No operation occurs even when an operation key is pressed.	● The cassette holder is not closed completely. ● The operation key is pressed immediately after closing the cassette holder. ● The operation key is pressed in less than 4 seconds after turning the power ON. ● A tape is not inserted in the unit. ● The tape is wound too tight due to irregular winding. ● The tape is fully wound to one of the reels.	● Close the holder completely. → 22 ● Press operations keys in more than a few seconds after closing the holder. ● Press operation keys after waiting for more than 4 seconds. ● Insert a tape. → 22 ● Try another tape. ● Change the tape transport direction or reverse the tape insertion orientation. → 22
The DPSS malfunctions.	● The tape used is not suitable for DPSS, for example the spaces between tunes may be too short.	● Refer to "Searching for the desired music program (DPSS)". → 25
In dubbing, the tape stops at different moments in decks A and B.	● This is due to the difference in the tape length or characteristics of the mechanisms of two cassette decks.	● Small time difference does not mean a malfunction.
The cassette holders cannot be opened by pressing the ▲ PUSH OPEN area.	● The key is pressed during recording or playback. ● The microcomputer is malfunctioning due to external noise.	● Press in stop mode. ● Reset the microcomputer. → 62
Sound is harsh or high frequencies are not reproduced.	● The head is dirty. ● The tape is stretched or shrunk.	● Clean the head referring to "Maintenance". → 61 ● Try another tape.
Sound is distorted.	● The tape being played was recorded with distorted sound. ● A tape recorded using the equalizer or SRS 3D level effect is played using the equalizer effect again.	● Try another tape. ● Switch off the equalizer and SRS 3D effect.
The AUX sound is distorted.	● The AUX INPUT LEVEL is set too high.	● Decrease the AUX INPUT LEVEL. → 47
Noise is noticeable.	● The tape head is magnetized. ● External noise is induced. ● A tape recorded with Dolby NR ON is played with Dolby NR OFF.	● Demagnetize the head referring to "Maintenance". → 61 ● Install the system at a distance from other electric appliances and TV. ● Set the Dolby NR to on. → 23
Sound vibrates.	● The capstans or pinch rollers are dirty. ● The tape is wound irregularly.	● Clean the head referring to "Maintenance". → 61 ● Wind the tape again by fast forwarding, rewinding or playing from an end to the other. → 23

Notes

1. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not a malfunction.
2. Do not use longer tape than 110 minutes tapes, for the tape is too thin and gets easily tangled.

Recording cannot be started by pressing the record key.	● The recording protect tab of the cassette has been broken. ● The cassette holder is not closed completely. ● The **TAPE** input is selected. ● The tape is fully wound to one of the reels.	● Use a cassette with an unbroken recording protect tab or block the hole. → 5 ● Close the holder completely. → 22 ● Select the source to be recorded with the input selector key. → 29 ● Change the tape transport direction of deck B or reverse the tape insertion orientation. → 28
Volume of the recorded track changed.	● **MIC VOL.** control knob is moved during recording.	● Fully turn the **MIC VOL.** control knob to the left. → 28

CD player

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	● The disc is placed upside down. ● The disc position is displaced. ● The disc is extremely dirty. ● The disc is scratched. ● Dew is condensed on the optics lens.	● Place the disc properly, with the label side facing upward. → 20 ● Place the disc properly. → 20 ● Clean the disc referring to "Disc handling precautions". → 5 ● Try another disc. ● Refer to "Caution on condensation" and remove the condensation by evaporation. → 61
Sound is not produced.	● The disc has not been placed. ● The player is not put to the play mode. ● The disc is extremely dirty. ● The disc is scratched.	● Place a disc in the CD player. → 20 ● Press the play key. → 20 ● Clean the disc referring to "Disc handling precautions". → 5 ● Try another disc.
Sound skips.	● The disc is dirty. ● The disc is scratched. ● The player is subject to vibration.	● Clean the disc referring to "Disc handling precautions". → 5 ● Try another disc. ● Install the unit in a place not subject to vibrations.

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

Specifications (XD-951/XD-A900)

Main unit

[Amplifier section]

Rated output power during STEREO operation
(U.S.A. and Canada)

100 watts per channel minimum RMS, both channels driven, at 6 Ω form 14 Hz to 14 kHz with no more than 0.9 % total harmonic distortion. (FTC)

(Europe, U.K. and Russia)
(DIN) 1 kHz, 0.7 % T.H.D., 6 Ω
Two channels driven ..... 100 W + 100 W
(Other countories)
1 kHz, 1.0 % T.H.D., 6 Ω
Two channels driven ..... 115 W + 115 W

Effective output power during STEREO operation
(Except for U.S.A. and Canada)
FRONT (1 kHz, 10 % T.H.D., 6 Ω) ..... 135 W + 135 W
Effective output power during SURROUND operation
(Except for U.S.A. and Canada)
FRONT (1 kHz, 10 % T.H.D., 6 Ω)
One channel driven ..... 100 W + 100 W
SUB WOOFER (60 Hz, 10 % T.H.D., 12 Ω // 12 Ω)
One channel driven ..... 100 W + 100 W
CENTER (1 kHz, 10 % T.H.D., 6 Ω)
One channel driven ..... 100 W
SURROUND (1 kHz, 10 % T.H.D., 12 Ω // 12 Ω)
One channel driven ..... 100 W + 100 W

Signal to noise ratio
AUX ..... 90 dB
Input sensitivity / impedance
AUX ..... 270 mV / 47 kΩ
MIC 1, 2 (Except for some arears) ..... 1.6 mV / 22 kΩ
Output level / impedance
AUX (Except for U.S.A. and Canada) ..... 1.2 V / 1 kΩ

[Tuner section]

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz
(For Russia) ..... 65.0 MHz ~ 74.0 MHz

MW (AM) Tuner section
Tuning frequency range
(Europe, U.K. and Russia) ..... 531 kHz ~ 1,602 kHz
(Other countories)
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
(U.S.A. and Canada) ..... 530 kHz ~ 1,700 kHz

LW tuner section (For the United Kingdom and Russia)
Tuning frequency range ..... 153 kHz ~ 279 kHz

[Cassette deck section]

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 105 kHz)
Heads
A deck Playback head 1
B deck Playback / recording head 1
Erasing head 1
Motors 2
Fast winding time ..... Approx. 115 seconds
(C-60 tape)

[CD player section]

Laser ..... Semiconductor laser
Wow & Flutter ..... Less than unmeasurable Limit
(Except for U.S.A. and Canada)
Digital output ..... - 15 dBm ~ - 21 dBm
(Wave length 660 nm)

[General]

Power consumption ..... 200 W
Dimensions ..... W: 280 mm (11″)
H: 332 mm (13-1/16″)
D: 350 mm (13-3/4″)
Weight (net) ..... 11.8kg (26.0 lb)

Fronts speakers (LS-N851)

Enclosure ..... Bass-reflex type
Speaker configuration
Sub woofer ..... 160 mm, cone type
Woofer ..... 160 mm, cone type
Tweeter ..... 65 mm, cone type
Super-tweeter ..... 25 mm, dome type
Impedance ..... 6 Ω (Sub woofer 12 Ω)
Peak input level ..... 135 W (Sub woofer 70 W)
Maximum input level ..... 100 W (Sub woofer 50 W)
Dimensions ..... W: 333 mm (13-1/8″)
H: 330 mm (13″)
D: 425 mm (16-3/4″)
Weight (net) ..... 7.2 kg (15.8 lb) (1 piece)

Surround speaker system (CRS-N851)

[Surround speaker]

Enclosure ..... Bass-reflex type
Speaker configuration ..... 80 mm, cone type
Impedance ..... 12 Ω
Maximum input level ..... 50 W
Dimensions ..... W: 215 mm (8-7/16″)
H: 100 mm (3-15/16″)
D: 110 mm (4-5/16″)
Weight (net) ..... 0.7 kg (1.5 lb) (1 piece)

[Center speaker]

Enclosure ..... Bass-reflex type
Speaker configuration ..... 100 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 100 W
Dimensions ..... W: 260 mm (10-1/4″)
H: 135 mm (5-5/16″)
D: 180 mm (7-1/16″)
Weight (net) ..... 1.9 kg (4.2 lb) (1 piece)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be possible at very low temperatures (0°C or less).

Specifications (XD-A700)

Main unit

[Amplifier section]

Rated output power during STEREO operation
(U.S.A. and Canada)

70 watts per channel minimum RMS, both channels driven, at 6 Ω form 40 Hz to 14 kHz with no more than 0.9 % total harmonic distortion.

(Other countories)
1 kHz, 1.0 % T.H.D., 6 Ω
Two channels driven ..... 85 W + 85 W

Effective output power during STEREO operation
(Except for U.S.A. and Canada)
FRONT (1 kHz, 10 % T.H.D., 6 Ω) ..... 100 W + 100 W
Effective output power during SURROUND operation
(Except for U.S.A. and Canada)
FRONT (1 kHz, 10 % T.H.D., 6 Ω)
One channel driven ..... 70 W + 70 W
CENTER (1 kHz, 10 % T.H.D., 6 Ω)
One channel driven ..... 30 W
SURROUND (1 kHz, 10 % T.H.D., 12 Ω // 12 Ω)
One channel driven ..... 30 W + 30 W

Signal to noise ratio
AUX ..... 90 dB
Input sensitivity / impedance
AUX ..... 240 mV / 47 kΩ
Output level / impedance
AUX (Except for U.S.A. and Canada) ..... 1.2 V / 1 kΩ
SUPER WOOFER PREOUT ..... 1.8 V / 600 Ω

[Tuner section]

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz
(For Russia) ..... 65.0 MHz ~ 74.0 MHz

MW (AM) Tuner section
Tuning frequency range
(Europe, U.K. and Russia) ..... 531 kHz ~ 1,602 kHz
(Other countories)
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
(U.S.A. and Canada) ..... 530 kHz ~ 1,700 kHz

LW tuner section (For the United Kingdom and Russia)
Tuning frequency range ..... 153 kHz ~ 279 kHz

[Cassette deck section]

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 105 kHz)
Heads
A deck Playback head 1
B deck Playback / recording head 1
Erasing head 1
Motors 2
Fast winding time ..... Approx. 115 seconds
(C-60 tape)

[CD player section]

Laser ..... Semiconductor laser
Wow & Flutter ..... Less than unmeasurable Limit
(Except for U.S.A. and Canada)
Digital output ..... - 15 dBm ~ - 21 dBm
(Wave length 660 nm)

[General]

Power consumption ..... 190 W
Dimensions ..... W: 280 mm (11")
H: 332 mm (13-1/16")
D: 350 mm (13-3/4")
Weight (net) ..... 11.7kg (25.7 lb)

Fronts speakers (LS-N451) (For U.S.A. and Canada)

Enclosure ..... Bass-reflex type
Speaker configuration
Woofer ..... 160 mm, cone type
Tweeter ..... 50 mm, cone type
Super-tweeter ..... 25 mm, dome type
Impedance ..... 6 Ω
Maximum input level ..... 100 W
Dimensions ..... W: 200 mm (7-7/8")
H: 330 mm (13")
D: 284 mm (11-3/16")
Weight (net) ..... 4.0 kg (8.8 lb) (1 piece)

Surround speaker system (CRS-N551)

(For U.S.A. , Canada , Europe and Ruusia)

[Surround speaker]

Enclosure ..... Acoustic air suspenension
Speaker configuration ..... 100 mm, cone type
Impedance ..... 12 Ω
Maximum input level ..... 15 W
Dimensions ..... W: 198 mm (7-13/16")
H: 128 mm (5-1/16")
D: 120 mm (4-3/4")
Weight (net) ..... 0.7 kg (1.5 lb) (1 piece)

[Center speaker]

Enclosure ..... Acoustic air suspenension
Speaker configuration ..... 100 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 30 W
Dimensions ..... W: 268 mm (10-9/16")
H: 128 mm (5-1/16")
D: 120 mm (4-3/4")
Weight (net) ..... 1.0 kg (2.2 lb) (1 piece)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be possible at very low temperatures (0°C or less).

Fronts speakers (LS-N551)

(For Australia, Europe and Ruusia)

Enclosure ..... **Bass-reflex type**
Speaker configuration
Woofer ..... **180 mm, cone type**
Tweeter ..... **65 mm, cone type**
Super-tweeter ..... **25 mm, dome type**
Impedance ..... **6 Ω**
Maximum input level ..... **100 W**
Dimensions ..... **W: 220 mm (8-11/16")**
H: 330 mm (13")
D: 315 mm (12-3/8")
Weight (net) ..... **4.1 kg (9.0 lb) (1 piece)**

Surround speaker system (CRS-N851)

(For Australia)

[Surround speaker]
Enclosure ..... **Bass-reflex type**
Speaker configuration ..... **80 mm, cone type**
Impedance ..... **12 Ω**
Maximum input level ..... **50 W**
Dimensions ..... **W: 215 mm (8-7/16")**
H: 100 mm (3-15/16")
D: 110 mm (4-5/16")
Weight (net) ..... **0.7 kg (1.5 lb) (1 piece)**

[Center speaker]
Enclosure ..... **Bass-reflex type**
Speaker configuration ..... **100 mm, cone type**
Impedance ..... **6 Ω**
Maximum input level ..... **100 W**
Dimensions ..... **W: 260 mm (10-1/4")**
H: 135 mm (5-5/16")
D: 180 mm (7-1/16")
Weight (net) ..... **1.9 kg (4.2 lb) (1 piece)**

This instruction manual is used to describe multiple models listed below. Model availability and features (functions) may differ depending on the country and sales area.

	→ 11 SUPER WOOFER PRE OUT	→ 19 S.W. LEVEL	→ 11 AUX OUT	→ 11 DIGITAL OUT	→ 55 MIC 1,2 / VOL.	SURROUND SPEAKERS (supplied)	→ 37 → 38 → 40 R.D.S. EON
XD-951		**YES**	**YES**	**YES**	**YES (Except for Europe, U.K. and Russia)**	**CRS-N851**	**YES (Europe, U.K. and Russia)**
XD-A900		**YES**				**CRS-N851**	**YES (Europe, U.K. and Russia)**
XD-A700	**YES**					**CRS-N551 (For U.S.A. , Canada , Europe and Russia) CRS-N851 (For Austraria)**	**YES (Europe, U.K. and Russia)**

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model_____ Serial Number _____